



RESEARCH ARTICLE.....

Effect of various fertilizers on yield of green azolla (*Azolla pinnata*) and its feeding effect on Osmanabadi goat kids

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ABSTRACT..... The present investigation on effect of various fertilizer on yield of green azolla (*Azolla pinnata*) and its feeding value to Osmanabadi goat kids was conducted under Department of Animal Husbandry and Dairy Science, Post Graduate Institute, Dr. PDKV, Akola for period of 60 day. 03 treatments were studied namely T₁ with production of azolla on soil (15 kg) pit, T₂ with production of azolla on soil (15 kg) pit with fresh cow dung (2 kg), T₃ with production of azolla on soil (15 kg) pit with SSP (20 g), respectively. The mean yield of azolla on wet basis under various treatments i.e. T₁, T₂ and T₃ were 4.28, 5.77 and 5.13 kg/pit, respectively and yield of azolla on dry matter basis 49, 66 and 60 kg/pit, respectively. The DM and CP value 5.56, 5.68, 5.67 per cent and 23.82, 25.60, 24.89 per cent, respectively. The CF and TA value were 13.58, 14.96, 14.33 per cent and 13.77, 14.94, 14.52 per cent, respectively. The EE and NFE were 4.02, 4.16, 4.09 per cent and 44.80, 40.34, 42.17, respectively. The goat kids from T₂ groups consumed more DM than that of T₃ and T₁ goat kids groups. The average daily DM intake was 0.570, 0.620 and 0.580 kg/day/kids in T₁, T₂ and T₃ groups, respectively. The average daily gain in body weight of experimental kids was more in T₂ (0.097 kg) followed by T₃ (0.087 kg) and T₁ (0.082 kg). The average total gain in body weight was more in T₂ (5.15 kg), followed by T₃ (4.90 kg) and T₁ (3.59 kg).

KEY WORDS..... Fertilizer, Soil, Cow dung, Single super phosphate (SSP), Yield, Proximate analysis, DMI, Goat kids, Body weight, Body measurement

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HOW TO CITE THIS ARTICLE - Madavi, S.U., Shelke, R.R., Nage, S.P. and Bidwe, K.U. (2019). Effect of various fertilizers on yield of green azolla (*Azolla pinnata*) and its feeding effect on Osmanabadi goat kids. *Asian J. Animal Sci.*, **14**(2): 23-28. DOI : 10.15740/HAS/TAJAS/14.2/23-28. Copyright@ 2019: HindAgri-Horticultural Society.

ARTICLE CHRONICLE - Received : 17.10.2019; Revised : 01.11.2019; Accepted : 09.11.2019