



Effect of formaldehyde treated concentrate, urea and soybean meal on feed conversion efficiency and economics of milk production in cows

N. S. CHORE, S. D. CHAVAN, R. R. SHELKE AND S. R. SHEGOKAR

ABSTRACT : Present investigation entitled “effect of formaldehyde treated concentrate, urea and soybean meal on feed conversion and economics of milk production in cows.” was undertaken at Department of Animal Husbandry and Dairy Science, Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola. Feeding of 1.5 per cent formaldehyde treated 70:30 sugras : SBM concentrate mixture with 2 per cent added urea diet to lactating cows (T_3) was evaluated in relation to sugras untreated ration (T_1). It was noticed that DCPI/kg milk yield was influenced by the feeding treatments being less by 7.23 and 10.84 per cent. The average DMI and TDNI intakes were 1.37 and 0.867, 1.77 and 0.851, 1.17 and 0.778, 1.23 and 0.810 and 1.17 and 0.772 kg/kg milk yield under T_1 , T_2 , T_3 , T_4 and T_5 groups, respectively, as a result the corresponding feed conversion efficiency emerged out as 73.14, 78.79, 83.73, 81.10 and 85.20 per cent, respectively, gross protein efficiency (GPE) was found comparatively more by approximately 7.33 to 7.92 per cent in T_3 and T_5 cows as compared to T_1 , T_2 and T_4 group cows, the values being 41.33, 40.74, 48.66, 42.98 and 48.36 per cent in T_1 , T_2 , T_3 , T_4 and T_5 groups, respectively. Moreover, similar trend was noticed in respect of net protein efficiency (NPE) under different treatments. The NPE values were 67.99, 62.66, 76.68, 66.26 and 76.94 per cent under T_1 , T_2 , T_3 , T_4 and T_5 groups, respectively. On an average daily feeding cost worked out as Rs.49, 50, 52, 42 and 43/cow in T_1 , T_2 , T_3 , T_4 and T_5 groups, respectively.

KEY WORDS : Formaldehyde, Sugras, Urea, Soybean meal, DMI, DCP, Milk yield, Feed conversion efficiency, Gross protein efficiency, Net protein efficiency, Economics

HOW TO CITE THIS PAPER : Chore, N.S., Chavan, S.D., Shelke, R.R. and Shegokar, S. R. (2017). Effect of formaldehyde treated concentrate, urea and soybean meal on feed conversion efficiency and economics of milk production in cows. *Res. J. Animal Hus. & Dairy Sci.*, 8(1) : 26-33 : DOI: 10.15740/HAS/RJAHDS/8.1/26-33.

MEMBERS OF RESEARCH FORUM

Address for correspondence :

R.R. Shelke, Department of Animal Husbandry and Dairy Science, Dr. Panjabrao Deshmukh Krishi Vidyapeeth, AKOLA (M.S.) INDIA

Associated Authors' :

N.S. Chore, S.D. Chavan and S.R. Shegokar, Department of Animal Husbandry and Dairy Science, Dr. Panjabrao Deshmukh Krishi Vidyapeeth, AKOLA (M.S.) INDIA
