



RESEARCH ARTICLE.....

## Effect of formaldehyde treated concentrate, urea and soybean meal on proximate analysis and feed intake in lactating cows

N.S. CHORE, S.D. CHAVAN, **R. R. SHELKE** AND S. P. NAGE

**ABSTRACT.....** Present investigation entitled “effect of formaldehyde treated concentrate, urea and soybean meal on proximate analysis and feed intake in lactating 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 ( $T_1$ ). SBM contained 49.50 and CP against a content of 17.60 per cent CP in sugras concentrate. The untreated 70:30 mixture had 27.47 per cent CP and 1.5 per cent HCHO treatment to mixture did not influence the proximate principles, though there was slight decrease in the constituents of mixture. The average DMI was 7.97, 7.78, 7.85, 7.01 and 7.21 kg/cow on feeding control ( $T_1$ ), 70:30 untreated ( $T_2$ ) and HCHO treated ( $T_3$ ) concentrate mixture with 2 per cent added urea and 70:30 untreated ( $T_4$ ) and HCHO treated ( $T_5$ ) concentrate mixture with 3 per cent added urea supplementation diets, respectively. Per cent BW DMI under different treatments clearly indicated that the cows received sufficient DM to fulfill the appetite and consequently supply of nutrients to the body. The unit body size intake of all the cows met out the nutritional standards of 2.5 kg DM/100 kg body weight. Hence, it seems no reason to consider the adverse effect of feeding formaldehyde treated (1.5 g/100 g CP) concentrate with added urea ration to cows in reference to express their optimum performance.

**KEY WORDS.....** Formaldehyde, Sugras, Urea, Soybean meal, Proximate analysis, Feed intake, Dry matter intake

**HOW TO CITE THIS ARTICLE** - Chore, N. S., Chavan, S. D., Shelke, R. R. and Nage, S. P. (2017). Effect of formaldehyde treated concentrate, urea and soybean meal on proximate analysis and feed intake in lactating cows. *Asian J. Animal Sci.*, **12**(1): 22-28. DOI : 10.15740/HAS/TAJAS/12.1/22-28.

**ARTICLE CHRONICLE** - Received : 19.04.2017; Revised : 05.05.2017; Accepted : 18.05.2017

**Author for Corresponding -**

**R. R. SHELKE**

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

See end of the article for

**Coopted authors'**