



Effect of formaldehyde treated concentrate, urea and soybean meal on yield and ouality of cow milk

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ABSTRACT : Present investigation entitled “effect of formaldehyde treated concentrate, urea and soybean meal on yield and quality of cow milk” 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 is concluded that lactating cows reared on HCHO treated 70:30 sugras:SBM concentrates with 2 per cent added urea ration produced 15 and 19 per cent more milk and 4 per cent FCM in comparison to control diet comprising feeding of sugras milk ration. Feeding of HCHO treated concentrate with 3 per cent added urea (T_3) and untreated concentrates with 3 per cent added urea (T_4) rations did not influence significantly on fat content of milk, being 4.23 and 4.24 per cent, respectively. There was increase in protein content of milk by 9.30 per cent on formaldehyde treatment (T_3) as compared to T_1 control group. The average SNF content in milk in order of significance was 8.87, 8.74 and 8.60 per cent under T_3 , T_5 and T_1 groups, respectively. While the SNF content of milk noticed on feeding untreated 70:30 sugras:SBM with 2 per cent (T_2) and 3 per cent (T_4) added urea diets was significantly lower than that of T_3 and T_5 respective treated groups. On the other hand, TS content of 12.74, 12.78 and 12.96 per cent were noticed under T_1 , T_4 and T_5 treatments, respectively.

KEY WORDS : Formaldehyde, Sugras, Urea, Soybean meal, Milk yield, Milk quality, 4 per cent FCM, Fat, Protein, Solid not fat, Total solids

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