



RESEARCH ARTICLE.....

# Effect of crop residue based complete feed on nutrient intake and digestibility in crossbred calves

Z.U. RAHMAN, K.R. MITKARI AND S.P. POUL

**ABSTRACT.....** The present investigation was undertaken to study the effect of crop residue based complete feed on growth performance, nutrient digestibility in crossbred calves. Eighteen crossbred (HF x Deoni) calves of six to eighteen months were selected and distributed in three groups. In control treatment ( $T_0$ ), the sorghum straw and concentrate used separately, in  $T_1$  treatment sorghum straw and concentrate used as complete feed whereas in  $T_3$  treatment sorghum and wheat straw in equal proportion (1:1) to form complete feed. The roughages to concentrate ratio in each treatment was maintained at 60:40 proportion. The average DM intake per 100 kg body weight under  $T_0$ ,  $T_1$  and  $T_2$  treatments were 1.97, 2.00 and 2.02 kg, respectively. The digestibility for DM, CP, EE, CF and NFE under  $T_2$  treatment were  $58.64 \pm 1.96$ ,  $57.24 \pm 1.37$ ,  $53.21 \pm 1.20$ ,  $58.64 \pm 1.05$  and  $56.82 \pm 1.10$  per cent, respectively. The digestibility co-efficient for DM, CP, EE, CF and NFE were non-significant among the groups.

**KEY WORDS.....** Complete feed, Digestibility, Nutrient intake, Sorghum straw, Wheat straw

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Author for Corresponding -

**S.P. POUL**

Department of Animal Science  
and Dairy Science, Vasant  
Naik Marathwada Krishi  
Vidyapeeth, PARBHANI (M.S.)  
INDIA

Email: [poul\\_s@rediffmail.com](mailto:poul_s@rediffmail.com)

See end of the article for

**Coopted authors'**