

**RESEARCH ARTICLE**

## Effect of feeding urea ammoniated soybean straw on plane of nutrition and compound growth rate with milk production in cows

**R.R. SHELKE, S.D. CHAVAN AND S.G. GUBBAWAR**

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**ABSTRACT.....** Feeding of untreated ( $T_2$ ) and 2% urea treated SBS ( $T_3$ ) was evaluated on the performance of lactating cows in reference to jowar straw diet ( $T_1$ ) to utilize urea treated non-conventional SBS as protein source roughage in the ration of lactating cows and its effect on plane of nutrition and compound growth rate in relation to milk production. Over the 120 days experimental period, the cows from  $T_1$  group received 21.98 and 30.21% more DM and TDN, respectively over that of their recommended level, while the corresponding higher intake of 0.94 and 4.75, 14.82 and 10.59% was observed in cows fed on  $T_2$  and  $T_3$  diets, respectively. Maximum growth of 0.65% per week in milk production was recorded in urea treated SBS group against a growth of 0.31 and 0.39% under  $T_1$  jowar straw and  $T_2$  untreated SBS groups, respectively. Provision of sufficient quantity of water was found more necessary otherwise it will reflect adversely on milk production of cows.

**KEY WORDS.....** Conventional jowar straw, Untreated soybean straw, Milk yield, Dry matter intake

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