



RESEARCH PAPER

Forage quality of multicut forage sorghum [*Sorghum bicolor* (L.) Moench] variety cofs-29 as influenced by nitrogen levels and cutting intervals

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Abstract : The study was conducted during summer 2014 on loamy sandy soil of Main Forage Research Station, Anand Agricultural University, Anand to study the “Influence of nitrogen levels and cutting management on multicut forage sorghum [*Sorghum bicolor* (L.) Moench] Variety CoFs- 29”. The result revealed that , application of 120 kg N ha⁻¹ (N4) recorded significantly the highest total green forage and dry matter yield as well as crude protein content, crude protein yield. The values of HCN were found within the permissible toxicity limit in all levels of nitrogen application. The NDF content significantly decreased with the increase in nitrogen levels. Treatment C₄ (first cut at 60 DAS + 2 subsequent cuts at 50 days interval) recorded significantly the highest values in all three cuts for green forage yield, dry matter yield, crude protein yield and crude protein per cent. However, there was a decline in crude protein content over each cut. There was a steady decrease in HCN content in individual cuts in all cutting treatments, treatment of first cut at 60 DAS + 2 subsequent cuts at 50 days interval recorded the lowest HCN content. NDF content increased with each cutting management practice in each cut. Treatment of first cut at 50 DAS + 2 subsequent cuts at 40 days interval recorded significantly lowest NDF content.

Key Words : Crude protein, Cutting management, Dry matter yield, HCN, Multicut, NDF

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