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RESEARCH PAPER

Effect of nitrogen levels and cutting management on growth and yield of multicut forage sorghum [Sorghum bicolor (L.) Moench] variety cofs-29

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Abstract : A field experiment was conducted during summer season of 2014 at Anand to study the effect of nitrogen levels and cutting management on multicut forage sorghum [*Sorghum bicolor* (L.) Moench]. Plant height, number of tillers per metre row, leaf : stem ratio, green forage and dry matter yields was recorded with successive increase in N levels upto 120 kg ha⁻¹. The application of 120 kg N ha⁻¹ gave significantly higher growth and yield characters over 60, 80, 100 kg N ha⁻¹. Statistically highest green forage and dry matter yields were obtained with application of 120 kg N ha⁻¹. Cutting management of first cut at 60 days after sowing and 2 intervals at 50 days produced significantly higher green and dry matter yields as well as growth and yield characters. Based on the findings, nitrogen level of 120 kg N ha⁻¹ and cutting management of first cut at 60 days after sowing + 2 subsequent cuts at 50 days interval was found to be the better combination for obtaining higher yields of sorghum under middle Gujarat conditions.

Key Words : Cutting management, Green forage, Growth, Nitrogen, Yield

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