Nitrogen Use-Uptake & Utilization Efficiency in Forage Sorghums (Total Aboveground)

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Abstract

The use of nitrogen fertilizer in forage sorghums is essential for increasing the yield and quality of the crop. The efficiency of nitrogen use (NUE) and fertilizer use (FUE) is an important factor in determining the productivity and sustainability of the crop. The study aimed to evaluate the NUE and FUE in forage sorghums under different nitrogen fertilizer rates and crop management practices. The results showed that the NUE and FUE increased with increasing nitrogen fertilizer rates. The highest NUE and FUE were observed in the crop managed with the highest nitrogen fertilizer rate. The study also revealed that the NUE and FUE were affected by the crop management practices, with the crop managed with the highest nitrogen fertilizer rate and the highest crop density showing the highest NUE and FUE. The findings of the study suggest that the use of nitrogen fertilizer in forage sorghums can increase the productivity and sustainability of the crop.