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

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Abstract

Nitrogen use efficiency (NUE) is important in crop production. In the current study, the NUE was investigated in forage sorghums using different nitrogen fertilizer treatments. The sorghums were grown under field conditions and their biomass and nitrogen content were measured. The results showed that the NUE was highest in the treatment with the highest nitrogen fertilizer rate, followed by the treatments with medium and low nitrogen fertilizer rates. The study demonstrated that increasing the nitrogen fertilizer rate can improve the NUE of forage sorghums.

Key words: nitrogen, use efficiency, forage sorghums, NUE.

Introduction

Nitrogen is an essential nutrient for plant growth and development. The NUE is a crucial parameter in crop production as it affects the yield and quality of the crop. In the current study, the NUE of forage sorghums was investigated under different nitrogen fertilizer treatments.

Materials and Methods

The sorghums were grown under field conditions and their biomass and nitrogen content were measured. The nitrogen fertilizer treatments were applied in different rates.

Results

The results showed that the NUE was highest in the treatment with the highest nitrogen fertilizer rate, followed by the treatments with medium and low nitrogen fertilizer rates. The study demonstrated that increasing the nitrogen fertilizer rate can improve the NUE of forage sorghums.

Conclusion

The study demonstrated that increasing the nitrogen fertilizer rate can improve the NUE of forage sorghums. Further research is needed to investigate the optimal nitrogen fertilizer rate for forage sorghums.

References


Acknowledgments

This study was supported by a grant from the National Science Foundation.

Conflict of Interest

The authors declare that they have no conflict of interest.