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

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Aims of the Study:

1. Nitrogen uptake efficiency (NUE) and fertilizer use efficiency (FUE) are critical factors in agricultural productivity.

2. The study aimed to evaluate the nitrogen uptake and utilization efficiency in forage sorghums under different conditions.

Methods:

1. Field experiments were conducted in a randomized complete block design with four replications.

2. The experiment was conducted over two growing seasons.

3. Nitrogen uptake was determined using soil cores and soil samples.

4. Fertilizer use efficiency was calculated based on the ratio of real yield to potential yield.

Results:

1. The results showed that the NUE and FUE were significantly affected by the type of sorghum and the application of nitrogen fertilizer.

2. The highest NUE and FUE were observed in sorghums with a high seed yield.

3. The NUE and FUE were higher in the first season compared to the second season.

Conclusion:

1. The study highlights the importance of optimizing nitrogen management in forage sorghums to improve their productivity.

2. Further research is needed to develop efficient nitrogen management strategies for forage sorghums.

References: