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

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Abstract

This study was conducted to determine the nitrogen use efficiency and fertilizer use efficiency in forage sorghums. The experiment was conducted at the Agriculture Research Station, University of Agriculture, Faisalabad, Pakistan, during the summer season of 2017. The experiment was set up in a randomized complete block design with three replications. Five varieties of forage sorghums were studied, namely, ASL-1, ASL-2, ASL-3, ASL-4, and ASL-5. The results showed that the nitrogen use efficiency and fertilizer use efficiency were significantly different among the varieties. The highest nitrogen use efficiency was observed in ASL-4, while the highest fertilizer use efficiency was observed in ASL-3. The study concluded that the forage sorghums showed promising results for nitrogen and fertilizer use efficiency, making them a potential alternative to traditional forage crops.