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

Mohammad Roohollah, SeyedPromos Richie, and Mohammad Hormoz

Agriculture and Natural Resources Research Institute

Abstract

The objectives of this study were to determine the nitrogen use efficiency (NUE) and fertilizer use efficiency (FUE) in forage sorghums. The study was conducted at the Agricultural Research Station, University of Tehran, Iran. The sorghum genotypes were planted in a randomized complete block design with four replications. The results showed that the NUE and FUE were significantly affected by the sorghum genotypes. The highest NUE was observed in the genotype with the highest biomass production. The FUE was affected by nitrogen application rate and sorghum genotype. The results indicate that forage sorghums can be used as a potential source of nitrogen for livestock production.

References


