

# **Influence of foliar nutrition on growth and yield of *rabi* sorghum (*Sorghum bicolor* L. Moench)**

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## **ABSTRACT**

A field experiment was carried out in clay soils during *rabi*, 2024-2025 at Agricultural College Farm, Bapatla to assess the response of *rabi* sorghum (*Sorghum bicolor* L. Moench) to foliar nutrition. The trial was laid out in a randomized block design with eight treatments and replicated thrice. The results of the investigation revealed that growth characters such as the plant height (168.2 cm), drymatter (13745 kg ha<sup>-1</sup>), yield attributing characters such as earhead weight (64.5 g), grain yield (4414 kg ha<sup>-1</sup>) and stover yield (7812 kg ha<sup>-1</sup>) were significantly higher with the application of 100 % RDN (100 kg ha<sup>-1</sup>) which was on par with the application of 75 % RDN (75 kg ha<sup>-1</sup>) + Foliar spray of urea @ 2% at 40 DAS and 60 DAS (159.3 cm, 13234 kg ha<sup>-1</sup>, 61.5 g, 4215 kg ha<sup>-1</sup> and 7589 kg ha<sup>-1</sup>, respectively), application of 75 % RDN (75 kg ha<sup>-1</sup>) + Foliar spray of nano urea @ 4 ml L<sup>-1</sup> at 40 DAS and 60 DAS (152.7 cm, 12720 kg ha<sup>-1</sup>, 59.3 g, 4063 kg ha<sup>-1</sup> and 7482 kg ha<sup>-1</sup>, respectively) and with application of 75 % RDN (75 kg ha<sup>-1</sup>) + Foliar spray of nano DAP @ 2.5 ml L<sup>-1</sup> at 40 DAS and 60 DAS (145.0 cm, 12140 kg ha<sup>-1</sup>, 57.2 g, 3871 kg ha<sup>-1</sup> and 7009 kg ha<sup>-1</sup>, respectively).

**Keywords:** *Nano urea, Nano DAP, Sorghum, Seaweed extract and Urea*