

Research Article

Response of soybean [*Glycine max* (L.) Merrill.] yield, nutrient uptake and quality to micronutrients (Zn, Fe and Mo) under *Khandesh* region of Maharashtra

■ RESHMA B. SALE AND R.B. NAZIRKAR

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MEMBERS OF RESEARCH FORUM :**Corresponding author :**

RESHMA B. SALE, Department of Soil Science and Agricultural Chemistry, College of Agriculture, DHULE (M.S.) INDIA
Email: reshmasale18@gmail.com

Co-authors :

R.B. NAZIRKAR, Department of Soil Science and Agricultural Chemistry, College of Agriculture, DHULE (M.S.) INDIA

Summary

To evaluate the response of zinc, iron and molybdenum on yield, nutrient uptake and quality of soybean (*Glycine max* L. Merrill.) under *Khandesh* region of Maharashtra, a field experiment was conducted in Randomized Block Design with three replications and nine treatments at Agriculture Research Station farm, College of Agriculture, Dhule. The experimental treatments included seed fortification of Mo@ 0.66 g kg⁻¹ seed at the time of seed treatment and Zn (0.5%) and Fe (0.5 %) foliar spray used in three times 30, 50 and 70 days after sowing. The result revealed that micronutrients application had a significant effect on grain and straw yield, nutrient uptake, oil and protein content of soybean. The maximum grain and straw yield as well as nutrient uptake was received in treatment receiving foliar application of Fe and Zn. The maximum oil and protein percentage was obtained with the foliar application of Fe and Zn along with seed fortification of Mo. Overall, data concluded that micronutrient had positive effect on nutrient uptake with qualitative and quantitative traits of soybean in the conditions of studied area.

Key words : Foliar application, Seed fortification, Yield, Oil, Protein, Nutrient uptake, Soybean

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