

Research Article

Interaction effect of sulphur and boron on yield, nutrient uptake and quality of soybean grown on *Vertisol*

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Summary

Field experiment was conducted in *Kharif* season of 2008-2009 on *Vertisol (Typic Haplustert)* at experimental farm of Department of Soil Science and Agricultural Chemistry, Marathwada Krishi Vidyapeeth, Parbhani using soybean as a test crop to evaluate the interaction effect of sulphur and boron on yield, nutrient uptake and nutrient availability in soil after harvest of the crop. The experiment was laid out in factorial randomized block design with four levels of sulphur (0, 20, 40 and 60 kg elemental S ha⁻¹) and three levels of boron (0, 10, and 20 kg borax ha⁻¹). The results clearly indicated that application of sulphur as well as boron in their graded doses increased the grain and dry matter yield of soybean, uptake of N, P, S and B in soil significantly after harvest of crop. The enhancement in these parameters were recorded with combined effect of sulphur upto 60 kg S ha⁻¹ and that of boron to the tune of 20 kg borax ha⁻¹ application levels indicating their sufficient need for a crop like soybean.

Key words : Soybean, Sulphur, Boron, Nutrient uptake, Nutrient availability

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