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Response of linseed (*Linum usitatissimum*) to sulphur and boron application under rainfed condition

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ABSTRACT : A field experiment was conducted during *Rabi* 2010-11 at Chitrakoot, Satna (M.P.) to asses the effect of sulphur (0, 20, 40, and 60 kg/ha) and boron (no spray, 1 ppm and 2 ppm boron sprays) levels on productivity, nutrient content and their uptake by linseed (*Linum usitatissimum*). Each successive increase in sulphur level upto 60 kg/plant, harvest index, seed yield and stover yield, but in most of the cases increase was not significant beyond 40 kg S/ha. Foliar spray of boron showed significant increase in capsules/plant, seed capsule, seed weight/plant and harvest index over no spray of boron, but difference between 1 ppm and 2 ppm sprays was not significant in any case. Seed and stover yields could not be influenced by boron spray significantly. Sulphur application increased S-content in seed and stover significantly with upto 60 kg S/ha while S and B uptake registered significant increase with up to 40 kg S/ha. Boron spray reduced S-content but increased B-content in seed and stover significantly over no boron spray. B-uptake was highest with 2 ppm spray, but S-uptake was not affected by boron spray significantly.

Key Words: Linseed, sulphur, boron, yield, nutrient, uptake.