

BORON TOXICITY IN WHEAT

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ABSTRACT

The response of wheat (variety Blue Silver) to high soil B (Boron) was studied in a pot experiment by employing 0, 5, 10, 15, and 20 mg B Kg⁻¹ (corresponding to 0.4, 3.5, 5.3, 7.0 and 9.0 mg kg⁻¹ available B) in a clay loam soil. At about 8.5 mg kg⁻¹ available B in soil, wheat straw and grain contained 290 and 15 µg g⁻¹ B respectively, which resulted in a 50% reduction in yield. The adverse effect of soil B on yield occurred even at the minimal level of soil B i.e. < 5 mg kg⁻¹.