

## **Effect of different levels of nitrogen, sulphur and foliar application of boron in sunflower (*Helianthus annuus* L.)**

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**ABSTRACT :** The experiment was conducted during the *Kharif* season of 2015 at Crop Research Farm, Deptt. of Agronomy, Allahabad School of Agriculture, SHIATS, Allahabad (U.P.) to study the effect of different levels of nitrogen (40 kg/ha, 60kg/ha), sulphur (30 kg/ha, 45kg/ha) and foliar application of boron (no spray of boron, 0.2% boron spray at 30DAS, 0.2% boron spray at 30&45DAS). The results recorded that the significantly higher seed yield (1477.33 kg/ha), higher capitulum diameter (14.93cm) and higher number of seeds (383.33/capitulum) in the treatment T<sub>8</sub> (60 kg/ha of nitrogen + 45 kg/ha of sulphur + 0.2% foliar spray of boron at 30DAS). It is also observed that the significantly higher number of unfilled seeds (147.56 /capitulum) in the treatment T<sub>3</sub> (60 kg/ha of nitrogen + 30 kg/ha of sulphur). Significantly higher plant height (130.60 cm) was obtained in the treatment T<sub>13</sub> (NPK 60 kg/ha nitrogen + 40 kg/ha phosphorus + 40 kg/ha potassium).

**Key Words :** Sunflower (*Helianthus annuus* L.), nitrogen, sulphur, boron, foliar spray, yield, yield attributes, crop growth rate (CGR).