

## **Response of groundnut (*Arachis hypogaea*) to boron nutrition in light-textured entisol**

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**ABSTRACT :** A field experiment was conducted at Zonal Research Centre Ujhani- Budaun, Utter Pradesh, during rainy (*Kharif*) season of 2010 & 2011 with 12 treatments in randomized block design to determine the effect of boron nutrition on growth, yield attributes and pod yield of groundnut (*Arachis hypogaea*) cv. TG-26. A linear increase in growth, yield attributes and pod yield of groundnut were recorded with the application of different levels of boron. Maximum increase in plant height (30.5cm), branches/plant (5.2), pods/plant (26.1), 100-pods weight (29.6g), shelling percentage (72.94), 100-kernel weight (42.19g), pod yield (2774.3 kg/ha), gross return (Rs74,906), and B:C ratio (3.83) were recorded with application of 5t.FYM.+ 2.0kg B/ha along with recommended dose of fertilizers. Application of 5t.FYM.+ 2.0kg B/ha along with R.D.F. (20:30:45:20kg N,P,K & S/ha) significantly increased the pods/plant, 100-pod weight and pod yield over RDF, 1.0kg B/ha and foliar feeding and statistically at par with rest of the treatments, Foliar application of boron did not significantly increase the growth, yield attributes and pod yield of groundnut.

**Key Words :** Groundnut (*Arachis hypogaea*), boron (B), FYM, RDF and pod yield.