

Effect of NPK and Humic Acid Formulations on Growth, Yield and Quality Characters of Bhendi (*Abelmoschus esculentus* (L.) Moench)

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ABSTRACT

To find out the effect of NPK and humic acid formulations on the growth, yield and quality characters of bhendi, a field experiment was conducted at Perampattu village, near chidambaram during January- April 2010. The texture of the soil was sandy loam with pH-7.54 and EC-0.96 dSm⁻¹. The available nitrogen was low whereas available P and K were medium, respectively. The treatments consisted of different levels of NPK viz., control, 50%, 100% and 150% as factor-A and different sources of humic acid formulations viz., Control (water spray), Foliar spray of lignite humic acid @ 0.2%, Foliar spray of formula 15+ @ 0.2% and Foliar spray of humic plus @ 0.2% as factor-B. The experiment was laid out in a factorial randomized block design (FRBD) with three replications using bhendi var. SPBH-7 as test crop. The results revealed that the combined application of 100% NPK along with foliar spray of humic plus @ 0.2% significantly increased the growth, yield and quality characters of bhendi. The increased fruit and stover yield recorded was 17.58 and 11.72 t ha⁻¹ as compared to 7.39 and 6.51 t ha⁻¹ of fruit and stover yield in control.

Key words : Humic acid formulations, Bhendi, Growth, NPK, Quality, Yield.