

Influence of Humic Acid and Inorganic Nitrogen on Plant Growth, Yield Attributes and Yield of Direct Sown Rice

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ABSTRACT

A field experiment was carried out to study the influence of different levels of humic acid (10, 20, 30 kg ha⁻¹) and different levels of inorganic N fertilizer viz., 100 % of recommended dose and 75 % of recommended dose on plant growth, yield attributes and yield of direct sown rice at Agricultural college farm, Bapatla during 2019. The experiment was laid out in RBD with ten treatments replicated thrice with BPT-5204 variety of rice as test crop. At harvest, no. of tillers m⁻², no. of panicles m⁻², straw and grain yields were recorded. The results indicated that taller plants, more drymatter production, more no. of tillers and panicles m⁻², grain and straw yields were recorded with the treatment received 100% RDN and HA @ 30 kg ha⁻¹ which was on par with treatments (T₂) HA @ 20 kg ha⁻¹ + 100% RDN, (T₃) FYM @ 10 t ha⁻¹ + 100% RDN and (T₁₀) HA @ 20 kg ha⁻¹ + 75% RDN.

Keywords: *Humic acid, Direct sown rice, Plant growth, Yield attributes and Yield.*