

Influence of planting windows on growth and yield of rice varieties (*Oryza sativa* L.)

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ABSTRACT

Field experiment was carried out during *kharif* 2016 on sandy clay loamy soils of Agricultural college, farm Bapatla to study the effect of different transplanting dates on growth and yield of different rice varieties. The experiment was laid out in Randomized block design with factorial concept with three rice varieties (V_1 = BPT-5204, V_2 = NLR-33892, V_3 = BPT-2270) and four dates of transplanting (1st fortnight of August, 2nd fortnight of August, 1st fortnight of September, 2nd fortnight of September) and replicated thrice. Results indicated that the crop planted during 1st fortnight of August recorded significantly highest plant height, drymatter, yield attributes, grain yield and straw yield compared to other dates of transplanting. Among the varieties BPT-2270 recorded significantly highest drymatter, yield attributing characters, grain yield and straw yield compared to BPT-5204 and NLR-33892 and these were on par with each other. There was a gradual decrease in plant height, drymatter, yield attributing characters and yield with each delay in planting from 1st fortnight of August to 2nd fortnight of September irrespective of variety.

Key words: *Dates of transplanting, Rice varieties and Yield*