

Study of Estimates of Genetic Parameters for Yield and Physiological Traits in Rice (*Oryza sativa* L.) under Saline Soil Conditions

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ABSTRACT

Study of variability parameters in F_2 progenies of rice under saline soil conditions revealed high heritability estimates as well as genetic advance for number of total tillers plant⁻¹, number of productive tillers plant⁻¹, panicle length, panicle weight, number of filled grains panicle⁻¹, spikelet fertility per cent, 1000-grain weight, grain yield plant⁻¹, Standard Evaluation Score for visual salt injury symptoms and Na⁺/K⁺ ratio in the shoot. The results indicated that these characters are more amenable for selection as they appeared to be predominantly controlled by additive gene effects and are found to be least influenced by environment and more emphasis may be given to these traits while executing selections under saline conditions.

Key words : Genetic parameters, Physiological traits , Yield.