

Studies on Genetic Variability, Heritability and Genetic Advance for Yield Components and Grain Quality Parameters of Rice (*Oryza sativa* L.)

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ABSTRACT

The analysis of variance revealed significant differences among the 64 genotypes for all the 17 characters studied except for protein content indicating that enough variability is present in the studied material. The genetic parameters revealed moderate to high variability coupled with high heritability and high genetic advance as percent of mean for grain yield per plant (g), panicle length (cm), number of grains per panicle, head rice recovery per cent, volume expansion ratio, water uptake, L/B ratio and protein per cent suggesting the predominance of additive type of gene action in controlling these traits and scope for improvement of these characters through simple selection.

Key words : Genetic advance, Heritability, Quality parameters, Rice, Variability, Yield components.