

Genetic Variability for Yield, Yield Components and Physico- Chemical Characteristics in Rice Genotypes

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ABSTRACT

Phenotypic and genotypic coefficients of variability, broad sense heritability and genetic advance as per cent of mean were studied in 35 genotypes of rice. High values for PCV, GCV, heritability and genetic advance were observed for number of filled grains panicle⁻¹, grain yield (kg plot⁻¹), harvest index (%) and absolute growth at 50-65 DAT and 65-80 DAT. High heritability coupled with high genetic advance as per cent of mean was observed in case of plant height (cm), panicle length (cm), Number of filled grains panicle⁻¹, test weight (g), grain yield (kg plot⁻¹), harvest index (%), kernel length (mm), volume expansion ratio on cooking, protein content of grain and absolute growth rate at both 50-65 DAT and 65-80 DAT indicating additive gene action.

Key words : Genetic advance, Genetic variability, Rice.