

Study of Variability, Heritability and Genetic Advance for Grain Yield and Yield Characters in Hybrid Rice (*Oryza sativa* L.)

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ABSTRACT

The experiment was conducted with an objective to estimate the variability, heritability and genetic advance of 77 rice genotypes for ten yield traits. Analysis of variance revealed significant differences for all the traits under study. The characters *viz.*, filled grains per panicle, total number of grains per panicle and grain yield per plant exhibited high genotypic coefficient of variation (GCV) and phenotypic coefficient of variation (PCV). High heritability coupled with high genetic advance was observed for productive tillers plant⁻¹, filled grains per panicle, total number of grains per panicle and grain yield per plant indicating the preponderance of additive gene action and further improvement of these characters can be possible through simple selection procedures.

Key words: Variability, Heritability, Genetic advance, Rice