

Assessment of Genetic Parameters for Yield and its Attributing Characters in Rice Breeding Lines

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ABSTRACT

The present experiment was carried in 119 F₆ rice breeding lines along with two high yielding local checks to estimate genetic parameters for 9 quantitative characters. The analysis of variance revealed significant differences among the lines for all the characters studied. Higher estimates of Phenotypic Coefficient of Variation (PCV) and Genotypic Coefficient of Variation (GCV) were observed for number of grains per panicle and grain yield per plant and the difference between PCV and GCV was very low indicating little environmental influence on these characters. High heritability coupled with high Genetic Advance as Percent of Mean (GAM) was recorded for test weight, number of grains per panicle and grain yield per plant indicating the operation of additive gene action in the inheritance of these traits and improvement of these characters is possible through direct phenotypic simple selection.

Key words: *Genetic Advance as percent of Mean (GAM) and Rice, Genotypic Coefficient of Variation (GCV), Heritability, Phenotypic Coefficient of Variation (PCV).*