

Genetic parameters for yield attributes and physiological traits in greengram [*Vigna radiata* (L.) Wilczek]

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ABSTRACT

Greengram [*Vigna radiata*(L.) Wilczek] belongs to the family Leguminosae (Fabaceae) and is an important annual legume crop widely cultivated in semi-arid tropics. In the present investigation, a total of 30 genotypes of greengram including three check varieties were evaluated during *rabi*, 2024-25 in Randomized Block Design with three replications to study genetic variability, heritability, and genetic advance by using 10 quantitative traits and six physiological traits. Analysis of variance for various quantitative and physiological characters revealed that the mean sum of squares due to genotypes showed high significant differences for all characters under study. High GCV, PCV, heritability, and genetic advance were recorded by proline content and seed yield per plant.

Keywords: *Genetic Advance, GCV, Greengram, Heritability and PCV*