

Genetic Estimates, Association and Path Co-efficient Analysis in Blackgram (*Vigna mungo*.(L.)Hepper)

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ABSTRACT

Forty one divergent genotypes of blackgram (*Vigna mungo*.(L) Hepper) were evaluated for the yield and yield attributes during *rabi*, 2009-10. Genotypes differed significantly for all the characters studied. Plant height, number of clusters plant⁻¹, number of pods plant⁻¹, pod length and seed yield plant⁻¹ expressed high genetic advance as percentage of mean (GAM) coupled with high to moderate heritability and genotypic coefficient of Variation, indicating there by the preponderance of additive gene action for these characters. Correlation analysis indicated that seed yield /plant was significantly associated with number of branches plant⁻¹, number of pods plant⁻¹, pod length and number of seeds/pod. Path co-efficient analysis revealed that plant height, number of branches plant⁻¹, number of pods plant⁻¹, pod length, number of seeds pod⁻¹ and 100-seed weight had positive direct effects on seed yield plant⁻¹. Hence, selection on these traits could be suggested to bring improvement on seed yield in blackgram.

Key words : Blackgram, Character Association, Genetic Variability, Path Analysis.