

EVALUATION OF GENETIC VARIABILITY IN BLACK GRAM (*VIGNA MUNGO* L. HEPPER) GERMPLASM

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Abstract: The present investigation was conducted during kharif-2017-18 in the Field Experimentation Centre, Department of Genetics and Plant Breeding, Sam Higginbottom University of Agriculture, Technology and Sciences, Allahabad to examine 39 Black Gram genotypes along with 2 check (T9 and AZAD.1) to evaluate Genetic variability, correlation for yield in black gram. The experiment was laid out in an in Randomize Block Design replicate thrice. Analysis of variance showed highly significant differences among 39 genotypes of black gram for 13 characters studied. Moderate genotypic coefficient of variation and phenotypic coefficient of variation was recorded for number of clusters per plant, primary branches per plant and seed yield per plant. All characters showed High broad-sense heritability and high genetic advance as percent of mean was recorded for seed yield per plant and plant height. Biological yield, harvest index, seed yield per plant, exhibited high GCV, PCV and genetic parameters revealed that heritability (broad sense) and genetic advance as % of mean values were high for seed yield per plant indicating that selection would be fruitful for improvement of these traits.

Keywords: Black gram, Correlation, Genetic variability, Genotype

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