VARIABILITY STUDIES IN BRINJAL (SOLANUM MELOGENEA L.)

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Abstract: The genetic parameters were estimated in twelve genotypes including its local germplasm and national checks of Brinjal. The study revealed highly significant differences for most of the traits. High Genotypic and Phenotypic Coefficient of Variance were observed for number of long style flowers per inflorescence, number of fruits per cluster, number of medium style flower per inflorescence, rind thickness, average fruit weight, fruit length, fruit girth, number of flowers per inflorescence, total fruit yield per plant, number of branches per plant and total fruit yield per plant indicating effectiveness of simple selection for improvement of these characters. The low estimates of GCV & PCV were observed for days to first flowering and days to first fruiting while, the moderate estimates of Genotypic Coefficient Variance were exhibited for the characters stalk length, total fruit yield per plant, plant height. The highest estimates of GCV, heritability coupled with high genetic advance was observed for average fruit weight, indicating effectiveness of simple selection for improvement of these characters.

Keywords: Brinjal, GCV, PCV, Heritability, Genetic Advance, Yield

REFERENCES


