Studies on Genetic Variability, Heritability and Genetic advance of Yield and Yield components in Brinjal

R Rajya lakshmi, K Purushotham, L Naram Naidu and S S Vijaya Padma
AICRP on Tropical Fruits, Dr. YSR Horticultural University, Venkataramannagudem-534101

ABSTRACT

Evaluation of 84 varieties of brinjal revealed that PCV was greater than GCV for all the traits. The high values of PCV and GCV for leaf petiole length, number of flowers per cluster, days to first fruit set, per cent fruit set, days to harvest, number of fruits per cluster, number of fruits per plant, fruit length, fruit diameter, fruit length: breadth ratio, fruit pedicel thickness, weight of fruit, fruit volume and yield per plant indicated high variability among the different accessions of brinjal. High heritability coupled with high genetic advance was recorded for leaf blade length, leaf blade width, leaf petiole length, days to 50 per cent flowering, number of flowers per clusters, relative style length, days to first fruit set, fruit set percentage, days to harvest, number of fruits per cluster, number of fruits per plant, fruit length, fruit diameter, fruit pedicel length, fruit pedicel thickness, weight of fruit, fruit volume, seed weight, seed diameter and yield per plant indicating the role of additive gene action governing the inheritance of these traits and these traits can be improved through simple selection.

Key words : Brinjal, Genetic advance, Heritability, Variability.