

Heritability and genetic advance of yield and its components in brinjal (*Solanum melongena* L.)

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A field experiment studied in twenty seven crosses using line x tester analysis between twelve parents consisted of nine lines (local genotypes of Chhattisgarh) viz., IGB 35, IGB 43, IGB 44, IGB 52, IGB 54, IGB 55, IGB 65, IC 31, IC35 and three testers (improved varieties) viz., DBR 8, KS 224 and JBR 03 16. The heritability estimates was found higher for all the characters studied from 94.3 per cent to 62.9 per cent indicating that the characters are less influenced by environmental factors. The total fruit yield per plant recorded highest genetic advance as percentage of mean (227.41 %). Genetic advance in general was high for most of the characters studied except days to first flowering, days to first fruiting and plant height, which showed moderate genetic advance as percentage of mean, indicating effectiveness of simple selection for improvement of these characters.

Key words : Brinjal, Heritability, Genetic advance

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