

**Genetic Variability, Heritability and Genetic Advance for Yield and
Yield Contributing characters in inter-specific Cotton Hybrids
(*G. hirsutum* L. × *G. barbadense* L.)**

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ABSTRACT

An investigation was carried out to assess the variability, heritability and genetic advance for sixteen characters *viz.*, days to 50% flowering, plant height (cm), number of monopodia plant⁻¹, number of sympodia plant⁻¹, number of bolls plant⁻¹, boll weight (g), seed index (g), lint index (g), ginning out-turn (%), 2.5% span length (mm), micronaire value (10⁻⁶ g/inch), bundle strength (g/tex), uniformity ratio, fibre elongation (%), lint yield plant⁻¹ (g) and seed cotton yield plant⁻¹ (g) in 40 hybrids and 13 parents. The results revealed that high PCV and GCV were observed for the characters number of monopodia per plant, lint yield per plant and seed cotton yield per plant. High heritability accompanied with high genetic advance was shown by the characters *viz.*, lint yield per plant and seed cotton yield per plant and micronaire value (10⁻⁶ g/inch) indicating the preponderance of additive gene action which may be exploited through simple selection procedures.

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