

Study of Genetic Parameters on Yield, Yield Contributing and Fibre Quality Characters in Cotton (*Gossypium hirsutum* L.).

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ABSTRACT

Sixty three cotton (*Gossypium hirsutum* L.) genotypes were studied to know the genetic variability, heritability and genetic advance for yield, yield contributing and fibre quality characters. The analysis of variance revealed that the significant variability was present in the experimental material for all the characters. The phenotypic coefficient of variation (PCV) was slightly higher than genotypic coefficient of variation (GCV) for all the characters indicating the influence of the environment. The highest heritability estimates in broad sense was recorded for lint index (97 %) and seed index (96.68 %). High heritability was observed for all the characters except number of monopodia plant⁻¹, uniformity ratio and elongation (%). High heritability coupled with high genetic advance as per cent of mean was observed for number of bolls plant⁻¹, seed index, lint index, ginning out-turn, micronaire, seed cotton yield plant⁻¹ and lint yield plant⁻¹.

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