

# **Correlation and Path Coefficient Analyses in Cotton (*Gossypium hirsutum* L.)**

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## **ABSTRACT**

Correlation and path coefficient analyses were carried out in 60 genotypes of cotton that were collected from all the three cotton growing zones of India for different agronomical and fibre quality traits. The correlation studies revealed that plant height, number of sympodia per plant, number bolls per plant, boll weight, seed index, lint index, micronaire, uniformity ratio, elongation and lint yield per plant had significant positive association with seed cotton yield per plant. The path coefficient analysis revealed that plant height, days to 50% flowering, number of monopodia per plant, number of bolls per plant, seed index, lint index, uniformity ratio and lint yield per plant exerted direct positive effect on seed cotton yield per plant. Selection based on these attributes may be helpful in evolving high yielding varieties of upland cotton.

**Key words :** Cotton, Correlation and Path Analysis.