Character Association and Path Coefficient Analysis in Cotton (*Gossypium hirsutum* L.)

G Vijaya Lakshmi, V Chenga Reddy, C Panduranga Rao, J Satish Babu and R Srinivasulu

Department of Genetics & Plant Breeding, Agricultural College, Bapatla - 522 101, Andhra Pradesh

ABSTRACT

Correlation and path coefficient analysis were carriedout in 72 genotypes of cotton that were collected from all the three cotton growing zones of India for different agronomical and fibre quality traits. The character association studies revealed that number of bolls per plant, boll weight and lint yield per plant had significant positive association with seed cotton yield per plant. The path coefficient analysis revealed that number of bolls per plant, plant height number of sympodia per plant, ginning out turn, seed index, 2.5% span length, bundle strength, uniformity ratio, count strength product and lint yield per plant exerted direct positive effect on seed cotton yield per plant.

Key words : Character Association,Cotton and Path Analysis