

Genetic Variability, Character Association and Path Coefficient Analyses in Soybean [*Glycine max* (L.) Merrill.]

Y Pushpa Reni, Y Koteswara Rao, J V Ramana and V Srinivasa Rao
Department of Genetics and Plant Breeding, Agricultural College, Bapatla 522101, Andhra Pradesh

ABSTRACT

Forty-five genotypes of soybean [*Glycine max* (L.) Merrill.] of diverse origin were studied for their genetic variability, character association and path analyses. The difference between the genotypes were highly significant for 13 characters. Seed yield per plant, number of pods per plant, branches per plant and harvest index showed high genotypic coefficient of variation. Correlation studies indicated that seed yield per plant showed significant positive correlation with biological yield per plant, number of pods per plant, harvest index, seeds per pod, pod length, plant height, branches per plant and 100 seed weight. Path analysis revealed that biological yield per plant, pods per plant and harvest index will have positive direct influence on seed yield per plant.

Key words : Soybean, Variability, Path Analysis