

Genetic Variability and Association Analyses for Yield and its Components in Chickpea (*Cicer arietinum* L.)

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ABSTRACT

The present investigation was carried out to study the extent of genetic variability and associations of yield and yield components of *desi* chickpea. Wider genetic variability with high heritability and high genetic advance as per cent of mean was observed for 100-seed weight, biological yield and seed yield per plant indicating additive gene action. Seed yield was significantly and positively correlated with plant height, number of primary branches, number of secondary branches, number of pods per plant, 100-seed weight, harvest index and biological yield per plant. Path coefficient analysis indicated that number of pods per plant, biological yield and 100-seed weight had high positive direct effect on seed yield. Direct selection through these traits for improvement of seed yield shall be highly effective.

Key words : Chickpea, Correlation Coefficient, Path Analysis, Variability