



## Genetic Variability, Correlation Coefficient and Path Coefficient Analysis for Yield and Component Traits in Groundnut

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**Abstract:** Twenty nine breeding lines of groundnut were evaluated to estimate genetic variability, correlation coefficient and direct and indirect effects by path analysis for yield and its components traits. Phenotypic and genotypic coefficient of variation were high for pod yield per plant, kernel yield per plant, number of pods per plant, number of kernels per plant and hundred kernel weight. Pod yield per plant exhibited significant positive correlation with kernel yield per plant, number of kernel per plant, hundred kernel weight, number of pods per plant and harvest index at both genotypic and phenotypic level. Positive and significant association and higher contribution made to pod yield per plant suggested that kernel yield per plant, number of kernel per plant and hundred kernel weight are most important morphological traits that should be given due emphasis while deciding about selection criteria for groundnut.

**Keywords:** Genetic variability, Correlation coefficient, Path analysis

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