

Variability, Heritability and Genetic Advance for Pod Yield and its Contributing Traits in 15 F₂ Crosses of Groundnut (*Arachis Hypogaea* L.)

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ABSTRACT

Fifteen F₂ populations were evaluated for genetic parameters of 8 characters during kharif, 2011. Plant height (cm), number of primary branches, number secondary branches, number of mature pods, pod yield per plant (g), kernel yield per plant (g) and LLS score at 90 DAS showed moderate to high values of GCV, PCV, heritability and genetic advance in their respective crosses. The role of additive and non-additive gene action seems to be significant in the inheritance of these traits. Days to maturity showed moderate values of GCV, PCV, heritability and genetic advance. The role of non-additive gene action seems to be significant in the inheritance of this trait. In this characters intermating and selection in later generations would help to isolate lines with improvement in these traits.

Key words : Genetic parameters, Groundnut, LLS, Pod yield, Variability.