



RESEARCH PAPER

Genetic variability and correlation studies in chickpea (*Cicer arietinum* L.)

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Abstract : The present investigation on genetic variability and correlation studies in chickpea (*Cicer arietinum* L.) were carried out with 25 genotypes in a Randomized Block Design with three replications and observations were recorded on five randomly selected plants for 13 characters to study the amount of genetic variability, correlation, heritability at field experimentation center, department of genetics and plant breeding, Sam Higginbottom university of agriculture, technology and sciences, Prayagraj during *Rabi*-2019-2020. a detailed analysis of the results on per se performances revealed PHULE-G-5 followed by ICC-244263, RVG-202 and NEC-799, CSQ-512. Found superior for seed yield over the check (PUSA-362). Higher estimates of phenotypic and genotypic co-efficient of variation were observed for number of primary branches and number of pods per plant. High heritability was observed in number of primary branches number of seeds per plant. High genetic advance and genetic advance has percentage mean was observed in harvest index. High estimates of phenotypic correlation and genotypic correlation were recorded for test weight and biological yield per plant maximum positive direct effect were observed in test weight by biological yield, number of pods per plant and harvest index.

Key Words : Chickpea, GCV, PCV variability, Heritability, Correlation, Path analysis

View Point Article : Velpula, Anil Kumar and Gaibriyal, M. Lal (2022). Genetic variability and correlation studies in chickpea (*Cicer arietinum* L.). *Internat. J. agric. Sci.*, **18** (1): 313-318, DOI:10.15740/HAS/IJAS/18.1/313-318. Copyright@ 2022: Hind Agri-Horticultural Society.

Article History : Received : 07.09.2021; Revised : 13.10.2021; Accepted : 06.11.2021