

VARIABILITY, HERITABILITY AND GENETIC ADVANCE IN CHILLI

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Abstract: Different parameters were estimated to assess the magnitude of genetic variability in 43 genotypes of chilli (*Capsicum annum* L.). The analysis of variance indicated the prevalence of sufficient genetic variation among the genotypes from all the characters studied. The high phenotypic coefficient of variation (PCV) and genotypic coefficient of variation (GCV) were observed for fruit set per cent, number of fruits per plant, dry fruit yield per plant, number of seeds per fruit and average dry fruit weight. High heritability coupled with high genetic advance were observed for yield per plant, plant spread, fruit set per cent, days to first picking, number of fruits per plant, fruit weight, dry fruit recovery and number of seeds per fruit indicating these characters are governed by additive gene action. Hence, direct selection may be followed for the improvement of chilli for these characters.

Keywords: Chilli, Variability, Heritability, Genetic advance

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