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Variability studies in cucumber (*Cucumis sativus* L.)

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ABSTRACT : Twenty diverse genotypes of cucumber collected from Tamil Nadu and Kerala regions were evaluated for morphological characters like days to first female flowering, node number of first female flower, vine length, number of secondary branches, days to fruit harvest, fruit length, fruit girth, fruit diameter, average fruit weight, number of fruits per plant, 1000 seed weight and yield per plant to estimate the variability, heritability, genetic advance. In variability studies, yield per vine was obtained highest mean value CS 6 genotype. Maximum phenotypic and genotypic co-efficient of variation (PCV and GCV) was for yield per plant followed by average fruit weight, fruit diameter and number of fruits per plant. High heritability was observed for all the characters except node number of first female flower. Genetic gain was maximum for yield per plant followed by average fruit weight, fruit diameter, number of fruits per plant, number of secondary branches, fruit length, fruit girth and 1000 seed weight.

KEYWORDS : PCV, GCV, Cucumber, Heritability, Genetic advance

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