

Variability, heritability and genetic advance in cluster bean [*Cyamopsis tetragonoloba* (L.) Taub]

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ABSTRACT : Fifty genotypes of cluster bean [*Cyamopsis tetragonoloba* (L.) Taub] were evaluated to estimate variability, broad sense heritability and genetic advance for pod yield and related attributes, during *Kharif* 2008. High estimates of GCV and PCV were recorded for number of branches per plant, number of clusters per plant, number of pods per cluster, fresh pod yield, dry pod yield, 100 seed weight and gum content. High heritability coupled with high genetic advance was observed for plant height, number of branches per plant, number of clusters per plant, number of pods per cluster, pod length, fresh pod yield per plant, dry pod yield per plant, seed yield per plant, 100 seed weight, days taken to maturity, crude protein and gum content. High heritability with low genetic advance was observed for the trait, days taken to maturity. The results of the present investigation suggests that plant height, number of branches per plant, number of clusters per plant, number of pods per cluster, pod length, fresh pod yield per plant, dry pod yield per plant, seed yield per plant, 100 seed weight, days taken to maturity, crude protein and gum content had predominance of additive gene action and hence selection is more effective.

Key Words : Cluster bean, Variability, GCV, PCV, Heritability, Genetic advance

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