

Genetic Diversity Studies in Selected Mungbean (*Vigna radiata* (L.) Wilczek) Cultivars under Summer Conditions

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ABSTRACT

Genetic divergence among thirty one mungbean genotypes grown under summer conditions was estimated using Mahalanobi's D^2 statistic and total of eight clusters were obtained. Cluster I was the largest with twenty four genotypes. Except cluster I, all other clusters *viz.*, cluster II, cluster III, cluster IV, cluster V, cluster VI, cluster VII and cluster VIII had one genotype each. Cluster V recorded the highest mean for seed yield per plant followed by harvest index and relative injury percentage. The highest inter cluster distance was observed between cluster III and VII (1768.20). 100 seed weight contributed maximum towards diversity. Therefore, it was concluded that more emphasis should be given on these clusters for selecting genotypes as parents for crossing which may produce new recombinants with desired traits.

Key words: *Diversity, D² Analysis, Mungbean, Physiological Traits.*