

Multivariate Analysis in Paprika Chilli (*Capsicum annuum* L.)

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ABSTRACT

Genetic divergence was assessed among forty genotypes of paprika chilli for 15 traits using Mahalanobis' D^2 , principal component and cluster analyses. On the basis of these clustering methods eleven clusters were obtained in Mahalanobis' D^2 and seven clusters in hierarchical cluster analysis. Cluster VIII was the largest comprising eight genotypes in D^2 analysis and cluster IV was the largest comprising 11 genotypes in cluster analysis. In principal component analysis five principal components were identified which accounted for 88.41 per cent of the variability. PC_1 contributed 29.07 per cent of the total variability.

Key words :Cluster Analysis, Paprika Chilli, Principal Component Analysis and Ward's Minimum Variance