

Correlation and path coefficient analysis in greengram [*Vigna radiata* (L.) Wilczek]

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The correlation coefficients among twelve yield contributing traits with their path effects towards and seed yield using fifty-eight genotypes of greengram were investigated in during *Kharif* 2010. The analysis of correlation coefficient suggested that the magnitude of genotypic correlations were higher than the corresponding phenotypic correlations. The seed yield per plant had highly significant and positive correlations both at genotypic and phenotypic levels with number of pods per plant, number of pods per cluster, number of clusters per plant and number of seeds per pod. Seed yield per plant showed negative and highly significant correlation with days to maturity at both the levels and days to 50 per cent flowering at only genotypic level. The path coefficient analysis revealed that maximum direct effects as well as appreciable indirect influences were exerted by number of pods per plant, number of clusters per plant and number of pods per cluster towards seed yield per plant. Based on correlation and path analysis, number of pods per plant, number of clusters per plant, number of pods per cluster, number of seeds per pod and days to maturity were identified as the most important components of seed yield. It was apparent from the path analysis that maximum direct effects as well as appreciable indirect influences were exerted by number of pods per plant, number of clusters per plant and number of pods per cluster towards seed yield per plant. This suggested that emphasis should be given to these traits in selection programme for improvement of seed yield in greengram

Key words : Correlation, Greengram, Path analysis

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