Correlation and Path Analysis for Yield Components in Blackgram

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ABSTRACT

One hundred genotypes of blackgram were studied in augmented completely randomized block design with three replications for correlations, direct and indirect effects for thirteen quantitative characters. The yield contributing characters v*iz*., plant height, number of clusters per plant, number of pods per plant, pod length, number of seeds per pod, 100 seed weight and days to maturity had strong positive association with seed yield per plant at phenotypic level. The characters days to 50% flowering and SPAD had negative relationship with seed yield per plant at phenotypic level. Path analysis revealed that number of pods per plant, number of clusters per plant, plant height, 100 seed weight, number of seeds per pod and days to maturity had true relationship by establishing significant positive associations and positive direct effects on seed yield per plant.

Key words: *Correlation, path analysis, YMV and Blackgram*