Assessment of genetic variability, heritability and correlation studies of finger millet (*Eleusine coracana* Gaertn.) for yield and its yield components

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ABSTRACT

In the present study fifty germplasm lines of finger millet varieties were evaluated for twelve yield components at Agricultural Research Station, Vizianagaram during *kharif* 2022. Analysis of variance for fifty finger millet genotypes revealed significant differences among the varieties for all twelve traits studied indicating the presence of considerable genetic variability among the varieties studied. High PCV and GCV were recorded for finger width, leaf width, grain yield and fodder yield indicating sufficient variation among the genotypes for this trait and direct selection may be effective for these traits. High heritability along with high genetic advance was observed for number of productive tillers per plant, ear length, finger length, finger width, leaf width, grain yield and fodder yield. Leaf length showed positive and significant correlation with grain yield

Keywords: *Correlation, Finger millet, Genetic advance, Heritability and Variability*