Genetic variability studies for yield and its components in finger millet (*Eleusine coracana* (L.) Gaertn) accessions

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ABSTRACT

The present study was carried out using 50 finger millet accessions evaluated for 14 traits at Agricultural Research Station, Vizianagaram, during *kharif* 2024-25 in randomized complete block design with 2 replications. Analysis of variance revealed significant differences among genotypes for all traits, indicating presence of sufficient genetic variability. High genotypic and phenotypic coefficients of variation were observed for number of productive tillers per plant, finger width (cm), fodder yield per plant (g) and grain yield per plant (g) while days to 50% flowering, ear length (cm), finger length (cm) and 1000 grain weight (g) showed moderate GCV and PCV values. High heritability coupled with high genetic advance as percent of mean was recorded for days to 50% flowering, ear length, finger width, number of productive tillers per plant, thousand grain weight, fodder yield per plant and grain yield per plant indicating that these traits are largely governed by additive gene action and can be effectively improved through simple selection.

Keywords: *Finger millet, Genetic Advance, Heritability and Variability*