

# Genetic variability studies on yield and quality characters in finger millet [*Eleusine coracana* (L.) Gaertn.]

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## ABSTRACT

The present investigation was carried out to assess the nature and magnitude of genetic variability of nineteen yield attributing traits in 35 finger millet germplasm. The experiment was laid out in Randomized Complete Block Design at Agricultural college farm, Bapatla during *Kharif*, 2021. The analysis of variance showed highly significant differences among the genotypes for all the characters studied, indicating the presence of adequate variability. Further, coefficient of variation studies indicated that the estimates of GCV were lesser than the corresponding PCV values for all the traits indicating the influence of environment on expression of these characters and therefore phenotypic selection will be misleading. High PCV and GCV were recorded for grain iron, zinc and manganese contents indicating the existence of high variability. High heritability, along with high expected genetic advance as percent of mean, was observed for number of leaves per main tiller, finger width, test weight, grain iron, zinc and manganese contents implying that these traits were under probable control of additive gene effects and simple selection is sufficient to improve these traits.

**Key words:** *Expected genetic advance, Finger millet, GCV, Grain micronutrients content, Heritability, PCV and Variability.*