

Character association and path analysis in finger millet [*Eleusine coracana* (L.) Gaertn.]

S.D. Devaliya¹ and Manju Singh²

Received May 17, 2017 and Accepted September 11, 2017

ABSTRACT : Correlation and path coefficient analysis were estimated using 68 genotypes of finger millet (*Eleusine coracana* L. Gaertn) for 13 quantitative characters. Character association studies revealed that, grain yield per plant had highly positive and significant association with straw yield per plant, number of productive tillers per plant, main ear head length and protein content at both genotypic and phenotypic levels and calcium content had highly significant correlation with grain yield per plant at genotypic level indicating that these attributes were mainly influencing the grain yield in finger millet. Path analysis revealed that days to 50 per cent flowering, straw yield per plant, 1000-grain weight and protein content had direct positive effect on grain yield per plant.

Key Words: Finger millet (*Eleusine coracana* L.), correlation and path coefficient analysis.