

Correlation and Path Analysis over Environments in *Italian Millet [Setaria italica (L.)]*

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ABSTRACT

Correlation and path coefficient analysis were carried out using 20 genotypes of foxtail millet in 16 environments. Productive tillers per plant, ear length, ear weight, 1000 grain weight, straw yield, volume of root in main field, length of root in main field and weight of root in main field were positively correlated with grain yield over environments. The positive correlation of Productive tillers per plant, ear length, ear weight, 1000 grain weight, volume of root in main field and weight of root in main field with grain yield and among themselves for these characters was observed suggesting that these are the major yield contributing traits in foxtail millet. Path coefficient analysis also showed direct positive contribution of ear length, ear weight, Productive tillers per plant, 1000 grain weight, straw yield, volume of root in main field, and weight of root in main field on grain yield. These traits deserve special emphasis in selection while selecting for improvement in seed yield of finger millet.

Key words : Correlation, Italian Millet, Path Analysis.