Correlation and path analysis in turmeric cv. BSR-2

M. VELMURUGAN*, N. CHEZHIYAN AND M. JA Walshal
Dept. of Spices and Plantations Crops, Horticultural College and Research Institute, COIMBATORE (T.N.) INDIA

ABSTRACT
The investigations on turmeric (Curcuma longa L.) were carried out at the College Orchard, Department of Spices and Plantation Crops, Horticultural College and Research Institute, Tamil Nadu Agricultural University, Coimbatore to study the correlation and association analysis on yield and its components of organic turmeric. The experiment was laid out in split plot design consisting four organic manures viz., farmyard manure, vermicompost, digested coirpith compost and 50 per cent of recommended dose of fertilizer in the main plot. The sub plot treatment consists of biofertilizers like azospirillum, phosphobacteria and VAM with 32 different combinations. The association analysis revealed that all the characters showed positive and significant effect on rhizome yield. Path analysis showed total dry matter production and mother rhizome yield contributed the highest to rhizome yield. Number of tillers, number of leaves, total dry matter production, mother rhizome yield, primary rhizome yield, diameter of primary rhizome expressed significant positive direct effect on rhizome yield.

Key words: Correlation, Path analysis, Turmeric.

* Author for correspondence.