

## Character association and path coefficient analysis for seed yield in quality Protein Maize (Zea Mays L)

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Character association and path coefficient studies were carried out on sixty three genotypes of quality protein maize during the season Rabi 2008-09. Seed yield was positively correlated with ear weight, number of kernels per row, ear girth, shelling per cent, 100 seed weight, number of kernel rows per ear, ear length and oil content. The results of the study revealed that selection based on the traits, ear weight, number of kernels per row, ear girth, shelling per cent and 100-seed weight appeared to be most promising for yield improvement. Path coefficient analysis indicated that seed yield had positive direct relationship with ear weight and shelling per cent and had negative relationship with days to 50% silking, ear height, and oil percent. Ear weight also had considerable indirect effect via 100 seed weight and shelling per cent. the traits ear weight and shelling per cent. The traits ear weight and shelling percent with high direct effect with positive correlation with yield. Indicated true association, could be exploited for yield improvement.

### Biography

K. Vijay Kumar has completed M.sc (Agriculture) from Acharya N.G. Ranga Agricultural University, College of Agriculture, Rajendranagar, Hyderabad. Now I am doing Ph.D. Agriculture (Research Scholar) in Dept of Genetics and Plant Breeding from the same university. M.sc. research papers two published.