

Character Association and Interrelationship of Yield and Quality Attributes in Rice (*Oryza sativa* L.)

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ABSTRACT

Forty eight genotypes of rice were evaluated for fourteen yield and quality attributes to assess character association among themselves. The correlation analysis indicated that grain yield was significantly associated with number of grains per panicle, days to 50 per cent flowering, days to maturity, number of effective tillers per plant, harvest index, panicle length and 1000-grain weight. Path coefficient analysis revealed that days to 50 per cent flowering, number of effective tillers per plant, number of grains per panicle, plant height, harvest index and 1000-grain weight had positive direct effect on grain yield. Hence, selection on these traits could be suggested to bring simultaneous improvement of yield and quality.

Key words : Character Association, Path Analysis, Quality, Rice, Yield