

Cause and Effect Relationship between Yield, Quality and Yield Attributing Traits in Rice (*Oryza sativa*. L.)

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ABSTRACT

Correlation studies revealed positive and significant association of total biomass, harvest index, number of productive tillers per plant, plant height, panicle length, days to 50% flowering and number of filled grains per panicle with grain yield per plant. Selection based on total biomass, harvest index, productive tillers per plant and 1000 grain weight would be more useful for improvement of grain yield in rice, because of their high and positive direct effect on grain yield.

Key words : Correlation, *Oryza sativa* L., Path analysis, Rice.