Character Association and Path Analysis of Yield Components in Rice (Oryza sativa L.)

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ABSTRACT

Seventy six rice genotypes were evaluated to find out the association of different characters and their contribution to yield. Character association studies indicated significant positive association of ear bearing tillers plant^{-1} and filled grains panicle^{-1} with grain yield plant^{-1}. Hence, selection for these traits would be more effective to bring improvement in grain yield and to evolve high yielding varieties in rice. Results of path coefficient analysis revealed that ear bearing tillers plant^{-1}, filled grains panicle^{-1}, milling percentage, hulling percentage, grain length, L/B ratio, and kernel length after cooking could serve as important criteria for a sound selection programme, since these traits posses a positive direct effect on grain yield plant^{-1}.

Key words : Analysis, Rice, Yield.