Combining Ability Studies for Yield and Yield Components in Rice (*Oryza sativa* L.)

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ABSTRACT

Twenty crosses from four lines and five testers along with parents were evaluated in line x tester design for different characters in rice. Predominance of additive gene action was observed for the characters *viz*., days to 50% flowering, plant height (cm) and test weight (g). Number of ear bearing tillers per plant, panicle length (cm) and grain yield per plant (g) was controlled by non-additive gene action. Among the parents Sudu Hondarawala, IR 64 and PLA 1100 found to be good general combiners for grain yield. The crosses Sinna Sivappu x PLA 1100, PTB 33 x MTU 1075 and Sudu Hondarawala x MTU 7029 were recorded high *sca* effects for grain yield (g).

Key words : Combining ability and L x T analysis.