Studies on Genetic Variability, Correlation and Path Coefficient Analyses in Rice Under Saline Conditions

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ABSTRACT

A field experiment was conducted using fifty six saline tolerant rice genotypes during *kharif* – 2008 to study the extent of variability and relation ship among yield and yield component characters under saline conditions at Machilipatnam, Andhra Pradesh. Coefficients of variation were high for number of grains per panicle and grain yield per plant. The characters number of grains per panicle and 100 seed weight had high heritability with high to moderate genetic advance as percentage of mean. The character 100 seed weight had positive association with plant height, number of grains per panicle and grain yield per plant. Plant height showed positive direct effect and positive association with grain yield. Number of grains per panicle had positive direct effect, which was approximately to its correlation coefficient with grain yield.

Key words : Correlations, Path Analysis, Rice, Saline, Variability.