

Correlation Studies Between Yield and its Components in Advanced Breeding Lines in Rice (*Oryza Sativa* L.) Under Salinity

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ABSTRACT

Correlation studies between yield and its components under saline conditions is carried out in 69 advanced breeding lines of rice. Results revealed that significant positive correlation of grain yield/plant with ear bearing tillers/plant, panicle length and spikelet fertility and positive non significant correlation with plant height, number of filled grains/panicle and test weight. The association between grain yield/plant and initial and final salinity scores was negative and significant. Based on the association between the yield and its traits, selections can be made for improvement of yield especially under saline conditions, by taking the positive significant associated traits.

Key words : Components, Rice, Salinity.