

GENETIC ANALYSIS THREE LINE RICE HYBRIDS YIELD AND YIELD ATTRIBUTING CHARACTERS UNDER AEROBIC CONDITION

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ABSTRACT

Genetic variability studies provide basic information regarding the genetic properties of the population based on which breeding methods are formulated for further improvement of the crop. The estimates of heritability, coefficients of variability and genetic advance computed for 19 characters including drought and yield contributing traits.

The traits *viz.*, productive tillers per plant, panicles per plant, filled grains per panicle, harvest index, proline content, SPAD chlorophyll meter reading, chlorophyll stability index, biomass yield, dry root weight, dry shoot weight, root: shoot ratio and root length had high heritability accompanied with high genetic advance indicating lesser environmental influence and were under the control of additive gene effect.

KEYWORDS: Aerobic Rice, Additive Gene Action, Genetic Advance, Heritability