

RESEARCH PAPER

Genetic variability analysis for yield and its component traits in rice (*Oryza sativa* L.)

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A wide range of phenotypic, genotypic and environmental co-efficient of variation was observed for most of the characters. Maximum phenotypic and genotypic co-efficient of variation was recorded for panicle bearing tillers per plant followed by grain yield, test weight, number of total tillers per plant, spikelets fertility percentage, plant height, total spikelets per panicle and days to 50 per cent flowering. The range of broad sense heritability (h^2b) was obtained from (72.82%) panicle length to (99.64%) spikelets fertility percentage. The genetic advance in absolute terms ranged from 2.87 for panicle length to 34.25 for spikelets fertility percentage. High genetic advance was observed for spikelets fertility percentage followed by panicle length.

Key words : Heritability, Genetic advance, Co-efficient of variation, Rice

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