

Assessment of Genetic Variability Studies in Wet Direct Sown Rice

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ABSTRACT

Genetic variability for yield, quality, direct seeded, AG and SV traits were studied under wet direct sowing conditions in rice. The results of genetic parameters revealed high GCV and PCV coupled with high heritability and high genetic advance as percent of mean for number of panicles / plant, leaf area index, SSL on 10th day, SSL on 14th day, SRL on 10th day, SRL on 14th day, SVI-2, AG % after 2 weeks of submergence, plant survival % after 2 weeks, AG% after 3 weeks of submergence, plant survival % after 3 weeks suggesting an additive type of gene action. The remaining traits manifested low to moderate estimates for GCV and PCV, moderate to high heritability and low to high estimates for genetic advance as percent of mean indicating the preponderance of both additive and non-additive gene effects in controlling these traits.

Key words: *Anaerobic germination, Direct seeding, Early seedling vigour, Genetic parameters, Grain yield. Rice.*