IDENTIFICATION OF RESTORERS AND MAINTAINERS IN RICE (ORYZA SATIVA L.)

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Abstract: Three cytoplasmic Genetic male sterile (CMS) Lines of rice having wild abortive (WA) cytoplasmic male sterility source were crossed with 36 entries to assess their maintainers and restorers obtained from 40 crosses. The 40 hybrids were subjected to pollen and spikelet fertility analysis. Among the 40 hybrids 3 were expressed as restorer, 4 were partial restorer for CMS line CRMS 31A, 9 male line regarded as restorer and 19 male line regarded as partial restorer for the CMS line CRMS 32A. The 2 male line were restorer for CMS line DRR 3A. The only one parent R1130-100-1-88-1 was observed as maintainer for CMS line DRR 3A. Two partial maintainers viz., RF- 59 and IR 73459-120-2-2-3 were observed for CMS line CRMS 32A.

Keywords: CMS lines, Restorers, Maintainers, Rice

REFERENCES


