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RESEARCH ARTICLE

Analysis of combining ability for yield and its contributing traits in rice (*Oryza sativa* L.)

■ **S.B. Verma**

SUMMARY

Among the pollinator lines Swarna followed by NDRK 5026 were found to be good general combiners rest of the lines were poor combiners for grain yield and its major components. Among the CMS lines PMS 10 was found good general combiners for grain yield and its major components characters. Among 24 hybrids studied IR58025A x MT 20-1-1, PMs 8 A x NDRK 5023, IR 58025 A x NDRK 5026 exhibited high sea effects for grain yield, days to 50 per cent flowering, plant height, total no of tillers per plant, panicle bearing tillers per plant and panicle length. The magnitude of SCA variances than GCA variances for all characters were much higher. Maximum GCA and SCA variance was recorded for total spiketets per panicle and grain yield, respectively. Due to negative GCA variances for panicle length and test weight the average degree of dominance and predictability ratio could not be work out.

Key Words : GCA, SCA, Rice combining ability

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