Agro-morphological characterization of rice germplasm of Chhattisgarh

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SUMMARY

Germplasm can serve as a good source of resistance against biotic and abiotic stresses like drought and insect pest and diseases but they are often inferior to commercial cultivars because of several agronomically undesirable features such as poor plant type, spreading habit, high grain shattering, long awns, purple pericarp and/or red kernel and low yield. The amount of genetic variation in germplasm accessions and genetic relationships between genotypes are important considerations for designing effective breeding programs. The present studies were carried out to characterize fifty three rice accessions from IGKV, Raipur, Chhattisgarh germplasm. These germplasm accessions were evaluated for fourteen morphological and seventeen agronomical characters. The specific genotypes S: 663, K: 1514, J: 311 were identified for agronomical characteristics. These may be used in hybridization programme to achieve desired segregants for higher yield.

Key Words : Morphological and agronomical charaters, Germplasm, Variation

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