

Genetic Divergence in Rice

L Krishna, Ch D Raju, Ch S Raju and P R Reddy

Rice Research Scheme, Regional Agricultural Research Station, Jagtial, Karimnagar, Andhra Pradesh.

ABSTRACT

Genetic divergence study of 72 genotypes of rice for 10 agronomic and grain quality traits led to their grouping into 9 clusters. Grouping of the genotypes evolved from the same location into different clusters indicated the presence of good amount of genetic diversity. Highest contribution to the genetic diversity was through 100-grain weight followed by Kernel length and grains per panicle. The clusters VII and IX were highly divergent. The other clusters with moderate divergence and having few genotypes were III and VI. Based on the inter-cluster distance, mean performance and clustering pattern, hybridization between, JGL 1806, JGL 384, JGL 3947, JGL 1881, INRC - 1711, JGL 2984 and JGL 2948 is likely to give recombinants having high yield potential and high grain quality

Key words : Genetic divergence, Quality, Rice.