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RESEARCH ARTICLE

Genetic variability, heritability and genetic advance in *Triticum aestivum*

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SUMMARY

The present investigation was carried out to study gene action, heterosis, correlations, variance, genetic advance, heritability using diallel mating design at Research farm, Department of Agriculture, Mata Gujri college, Fatehgarh sahib during *rabi,* 2016-17 and 2017-18. The experiment was carried out in Randomized Block Design and observations were recorded on fifteen characters. The best heterotic cross for grain yield per plant was Kalyan Sona × WH-1080 followed by PDW-215 × CPAN-1796, Kalyan Sona× CPAN-1796, DBW-90 × PDW-215, DBW-90 ×WH-1080 and Kalyan Sona × DBW-90. Results revealed that grains per plant showed highly significant and positive genotypic correlations with days to booting, days to heading, spike length, plant height, harvest index and peduncle length. The experimental materials for the present investigation consisted of five lines *viz.,* Kalyan sona , WH-1080, PDW-215, DBW-90 and CPAN-1796 and one check *viz.,* PBW-725.

Key Words : Diallel, Heterosis, Harvest index, Variance

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