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**Estimation of Inheritance of Some Agronomical Characters in Common Wheat
by Diallel Cross Analysis**

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Abstract: This study was conducted to determine the genetic structure of a population which included six common wheat cultivars or lines and crosses of half diallel cultivars or lines. It was concluded that the epistatic effect was significant for a weight of 1000 grains and yield per plant, while the additive effect was significant for period of maturity, the number of spikelets per head, and the number of kernels per hear. The dominance effect was found in yield per plant. A partial dominance effect was found in other characters. It was found that at least 4 pairs of genes were effective on the number of spikelets per head; 2 pairs of genes were effective on yield per plant. It could not be determined how many genes played a role in other characters.

Key Words: Wheat, Diallel Analysis, Inheritance

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