

## PHENOTYPIC EVALUATION OF SPRING WHEAT IN TWO DIFFERENT ENVIRONMENTS

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Received-16.10.2017, Revised-18.11.2017

**Abstract:** Wheat is one of the most important crop and primary sources of calories for millions of people world-wide. World nutrition mostly depends on wheat and its products. Different climatic and other environmental changes accentuate the requirement for breeding strategies that deliver both an extensively increase in yield potential and resilience to dangerous weather events such as frost, heat waves, and drought. Heat stress around sensitive stages of wheat development has been identified as a possible threat to wheat production in different countries including India. In the present study, we phenotypically evaluated 324 SWRS (spring wheat reference set) wheat genotypes in two different environments. We used different parameters for selection of heat tolerance genotypes like, ANOVA, CV (%), % Decline, Heat susceptibility indices (MP, STI, TI, TSI, TOL, HSD), heritability and correlation for all the 11 quantitative traits and Shannon-Weaver Index (H) was used for two qualitative traits like, leaf glaucousness and leaf rolling.

**Keywords:** Wheat, Abiotic stress, High temperature, Genetic improvement

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