Genetic variation for dry matter and nitrogen accumulation in grain of spring wheat genotypes under optimum and post-anthesis drought stress conditions. I. Grain yield and its related traits

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Abstract

The objective of this study was to investigate the effects of post-anthesis drought stress on grain yield and its related traits in 14 spring wheat genotypes. The experiments were conducted in two locations, with different meteorological conditions, during two seasons. The results showed that the genotypes differed significantly in their response to post-anthesis drought stress. The study concluded that genetic variation for grain yield and its related traits exists among the genotypes, and this variation can be used to develop drought-tolerant genotypes by breeders.

Keywords: Genetic variation, post-anthesis drought stress, grain yield, related traits, spring wheat genotypes.