Effect of plant densities on yield and yield components in four cultivars of wheat in Ahvaz region.

M. Jafari1, M. Rezaei12, and M. H. Hadi1

1Department of Crop Sciences, Ahvaz Jundishapur University of Technology, Ahvaz, Iran
2Corresponding author

ABSTRACT

The effect of plant densities on yield and yield components in four cultivars of wheat (Triticum aestivum L.) in the Ahvaz region was investigated. The experiment was conducted in a factorial design with four main factors (cultivars: Horasan, Sharif, Sefid, and Dastur) and five densities (150, 200, 250, 300, and 350 plants per square meter). At each density, there were three replications. The results showed that plant density significantly influenced the yield and its components. The highest yield was obtained in the cultivar Horasan at a density of 250 plants per square meter. The number of heads per plant and the number of grains per head were also significantly affected by plant density. The results suggest that plant densities of 200 to 250 plants per square meter are optimal for wheat production in the Ahvaz region.

KEYWORDS

Plant density, yield, wheat, cultivars.