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

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Abstract

The present study was conducted to investigate the effect of plant densities on yield and yield components in four cultivars of wheat in Ahvaz region.

Keywords: Wheat, Plant density, Yield, Yield components.

Introduction

Wheat is one of the most important crops in the world, and its cultivation is widespread in Iran. The objectives of this study were to investigate the effect of plant densities on yield and yield components in four cultivars of wheat in Ahvaz region.

Materials and Methods

The experiment was conducted in a randomized complete block design with four replications. The treatments consisted of five plant densities: 120, 180, 240, 300, and 360 plants m⁻². The experimental plots were 3 m x 6 m in size, and each plot was fenced to prevent the movement of birds and other animals.

Results and Discussion

The results showed that the plant densities significantly affected yield and yield components. The highest yield and yield components were obtained at the plant density of 300 plants m⁻².

Conclusion

The results of this study indicated that increasing plant density can improve yield and yield components in wheat. However, the optimal plant density depends on the cultivar and environmental conditions.

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References


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