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

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Abstract

The main objective of this study was to investigate the effects of four different plant densities (100, 150, 200, and 250 plants m⁻²) on the yield and yield components of four wheat cultivars: 'Yasmeen', 'Abgani', 'Tehrani', and 'Khojand'. The results showed that higher plant densities led to higher grain yield and 1000-grain weight in all cultivars. However, the cultivar 'Khojand' had the highest grain yield at 250 plants m⁻², while 'Yasmeen' had the highest 1000-grain weight at 200 plants m⁻². The cultivar 'Abgani' had the lowest grain yield and 1000-grain weight across all plant densities. The cultivar 'Tehrani' had a moderate response to plant density, with the highest grain yield and 1000-grain weight at 200 and 250 plants m⁻², respectively.

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