Study of the Effect of Nitrogen Application and Plant Density on Quantitative and Qualitative yield of Triticale in Climatical Conditions of Khuzestan (Ramin)

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Abstract

The effects of nitrogen application and plant density on the quantitative and qualitative yield of Triticale in climatic conditions of Khuzestan (Ramin) were studied. The experiment was carried out in a completely randomized design with six replications. The treatments were divided into two main categories: nitrogen application levels (0, 45, 90, 135, 180, and 225 kg N/ha) and plant density levels (120, 150, 180, 210, 240, and 270 plants/m²). The results showed that increasing nitrogen application and plant density increased the yield of Triticale. The highest yield was obtained at 120 plants/m² and 180 kg N/ha.

Keywords: Nitrogen, plant density, Triticale, yield.