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

A new study was conducted to investigate the effects of different nitrogen application rates and plant densities on the quantitative and qualitative yield of Triticale (Triticale spp) in climatic conditions of Khuzestan (Ramin) region. The study was conducted in a randomized complete block design with three replicates. The experimental treatments consisted of two nitrogen application rates (150 and 225 kg/ha) and three plant densities (150, 300, and 450 plants/ha). The results showed that increasing nitrogen application and plant density had a significant positive effect on the yield and quality of Triticale. The highest yield was obtained at the highest nitrogen application rate and the highest plant density. The study results can be used by farmers and agricultural researchers to optimize the use of nitrogen and improve the productivity and quality of Triticale.