Effect of iron nano chelated fertilizers foliar application on three wheat cultivars in Khorramabad climatic conditions

M. Rezaeei\textsuperscript{a,*}, M. Daneshvar\textsuperscript{b}, A.H. Shirani\textsuperscript{c}

\textsuperscript{a}MSc of student of Agronomy Department, Khoramabad branch, Islamic Azad University, Khoramabad.
\textsuperscript{b}Assistante Professor of Agronomy Department, Faculty of Agriculture Sciences, Lorestan University, Khoramabad.
\textsuperscript{c}Assistante Professor of Agronomy Department, Khoramabad branch, Islamic Azad University, Khoramabad.

*Corresponding author; MSc of student of Agronomy Department, Khoramabad branch, Islamic Azad University, Khoramabad.

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\textbf{ABSTRACT}

In order to investigate the effect of iron nano chelated fertilizers foliar application on three wheat cultivars, an experiment was arranged based on randomize complete block designe in three replications during the 2011-2012 cropping seasons in research farm of faculty of agriculture, university of Lorestan, Iran. The first factor included breeded cultivars Zagros (c1) Koohdasht (c2) and Azar2 (c3) and second factor included iron nano chelated foliar application in four levels, F1, control, F2, 1.5kg iron nano chelated fertilizers foliar application per 1000 liter water, F3; 2.5 kg iron nano chelated fertilizers foliar application per 1000 liter water and F4, 3.5 kg iron nano chelated fertilizers foliar application per 1000 liter water. In this study spike number, grain number per spike, 1000 grain weight, biological yield, grain yield and harvest index of wheat were evaluated. Results showed that effect of iron nano chelate foliar application, wheat cultivars and interaction of them had significant effects on spike number, grain per spike, 1000 grain weight, biological yield and harvest index (p<0.01 and p<0.05). Zagros cultivar with 2.5 kg iron nano chelated fertilizers foliar application (C1F3 treatment) had the highest values at most of evaluated characters and with regard to this regional climatic condition is recommended as prevalent treatment.