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Annals of Biological Research

Abstract

[Waterlogging and its effects on nitrogen of soil and plant](#)

Soil as a bed that supplier of nutrients, organic matter, water and microorganisms to crops, has great importance. Various environmental stress such as waterlogging able, to be effective on the chemical and physical characteristics of the soil. Also understanding of physiological characteristics of crops, is one of the appropriate ways for applying activities appropriate agriculture, in order to, reduce environmental damage, incurred to the plants. To investigation, the effects of different periods 10, 20 and 30 days waterlogging with, without waterlogging stress conditions (control), at the time of the double ridge emergence and adding different levels of reparative nitrogen fertilizer, respectively, 0, 50, 100 and 150 kg h⁻¹ in end of stress duration, an experiment was conducted as factorial based on Randomized Complete Block Design, with three replications, at Campus of Agriculture and Natural Resource, Razi University, during 2009- 2010. Different periods of the waterlogging on the percentage of nitrogen, organic matter and organic carbon of the soil were significant. Period of 30 days waterlogging has the greatest effect on reducing the percentage of traits. Also, the results showed that, the effect of the waterlogging and reparative nitrogen fertilizer on contents of the chlorophyll a, b and leaf area of the flag leaf at the time of anthesis was not significant. But the effect of waterlogging on trait of flag leaf weight and percentage of grain nitrogen was significant.

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