

EFFECT OF SOURCE AND LEVELS OF NITROGEN ON WHEAT (*Triticum aestivum* L.) AND SOME SOIL PROPERTIES

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ABSTRACT

Plots experiment was conducted with complete randomize design at Baladrooz – Diyala , during the season (2008-2009) , five Kg clay loam soil was put at each pot , Five seeds of wheat were planted per pot . The sources of nitrogen was used : (Urea , Diammonium phosphate and Potassium nitrate) and three levels of nitrogen to any fertilizer : (50 , 100 and 150 Kg N . ha-1) with three replicates .

Results showed that significantly increase in plant length , branch number , leaves number , weight of straw , spikes number , grain number . spike-1 with increase of nitrogen levels . Effect of potassium nitrate fertilizer was significant on growth and productivity of wheat as comparison with urea and di ammonium phosphate fertilizers . Increase of straw weight was significantly in second and third levels of nitrogen as comparison with all treatments , during to surpass all levels of potassium nitrate fertilizer in plants length and grin number . spike-1 on all treatments , while the increase was significantly with third level of potassium nitrate in branch number , leaves number and spikes number, (pH) was significantly decreased with second level of diammonium phosphate fertilizer as comparison with levels of remainder of fertilizers , decrease of electrical conductivity and total of soluble salts with increase of nitrogen levels to all fertilizers were used in research , specialty in third level , and the minimum value to this characteristics with second level of Diammonium phosphate fertilizer.