

# **الشوفان *Avena sativa* L.**

By

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## **ABSTRACT**

This study was conducted in the winter season 2010-2011 at Bashiqa / Tobzawh village (25 km) east of Mosul and at Hemidat / AL-masiad village (20 km) west of Mosul. Both regions are located within the semi arid areas belt its rainfall is about 300-350 mm/ annually( AL-Fakhry, 1981) The study included two experiments at each site, the first one included studying the effect of four nitrogen fertilizer levels (zero, 50, 75 and 100 kg N / ha,) five varieties of oats (ICARDA Tall , Possum , Mitika , Kangaroo and ICARDA Short and supplemental irrigation the on yield and its components experiment was carried out according to Desing in Randomized Complete Block Design( RCBD) with three replications. The most significant results, are the following: all grain yield characteristics and its components, surpass at 100kg N/ha their similarities at other fertilizer levels with the exception of 1000 grain weight, in both study sites. Oats varieties under this study differed from each other in all studied characters with superiority of ICARDA Short variety in grain yield, at both study sites.-the yield characteristics and its components, not significantly affected by supplementary irrigation at both study sites.

**Key Words:** nitrogen fertilizer, oats, Grain Yield, Irrigation.