

# EFFECT OF METHODS APPLICATION AND Premagram Gold CONCENTRATION HERBICIDE ON GROWTH AND YIELD OF (*Zea mays* L) CORN AND ACCOMPANYING WEEDS

By

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## ABSTRACT

The experiment was carried out in as spring agricultural seasons (2011) at two locations : Field Crops Dept research station / University of Tikrit and Aldabsaa / Salahaldeen provance . The study was included two factors , the effect of methods application ( Conventional , Herbe -4) , and the Premagram gold concentrations (2 , 4 , 6 L / ha) & control treatment was added . The data were analysed according to the RCBD , using Duncan test . The number of weeds and dry thier weights significant decreased at Aldabsaa location as compared those obtaind with Alqadesea location Aldabsa location increase in hight plant , weight of 500 grains , yield , biological yield compare with Alqadesea location . All characters be did not differ significant whether the herbicide applied As the conent of herbicide increased the number of weeds & their dry weight , highly increased as with untreatment plants ,All herbicides with different concentration did not show any effect on the dry weight of 500 grain & biological yield between the all herbicide concentration . The interactions between locations and methods application affect on plant height , yield of plant , Wight of 500 grain and biological yield , while their interactions were not significant on No of weed & dry weights , The interaction between locations and herbicide concentrations , and between methods application with herbicide concentrations and the interactions between the three factors significantly affected all characters .non significant between all factors of affect on oil percent.

**Key words:** Corn, Herbicide, Premagram Gold, Grain Yield, Weeds.