

٠.٠٨٣ ب	٠.١٦٩ ب	مبيد 2.4-D مضاف بطريقة المسح بتركيز (١:١٥ مبيد إلى ماء) T 9
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القيمة التي تحمل نفس الحروف لا تختلف مخويا عن بعضها احتمال ٥%.

## Effect the Methods and Frequency Of Application By Using Different Doses Of Glyphosate and 2,4-D Herbicides In Controlling Water Hyacinth *Eichhornia crassipes* (Mart)Solms and Reducing Contamination In Water

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### ABSTRACT

The experiment was conducted during the growing season 2011 at College of Agriculture and forestry , Mousil University (Iraq).The aim of present study is control Water Hyacinth by using glyphosate and 2,4-D herbicides at different rate ,methods and frequencies of application and with different times between application. The experiment was set out as factorial design in randomization complete block design with three replicates .The experiment included three factors: 1-the type of herbicide with different doses methods of application, 2-the frequency of application and 3-the period of times to study effect of herbicides application on characters after spraying .The results showed that Glyphosate was more effective than 2,4-D in reducing dry weight of plant and the percentage of survival rate. Moreover it was observed that use rope-wick wiper of herbicide application was more satisfactory in reducing contamination in the water as compared with spraying method in which it was achieved of up 86.5% .The best herbicide control rate 1:10,1:5(herbicide : water )for Glyphosate and 2,4-D respectively .Moreover, it was observed that the period between two application 10-20 days more favorable for controlling water hyacinth plant in which it gives a 100% control when using glyphosate at dose of 450 g/donum when applied as foliar spray and repast the tremens twice after 20 days.