

**INFLUENCE OF DIFFERENT PLANT TALL AND GROWTH OF WATER HYACINTH
ON WATER CONSUMPTIVE IN NORTHERN IRAQ**

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ABSTRACT

A pot experiment was conducted during growing season 2011 at collage of Agriculture and Forestry/Mousl University on water hyacinth *Eichhornia crassipes* (Mart)Solms .The focus of this project was to determine the water consumed for the plants, in Nenawa province .The experiment consist three factors. The first was different plant tall at the start the project 10,15 and 20cm, second factor was plant growth habit on May and June while last factor was frequency of taken results (9 time during one month). It was factorial experiment in complete randomized design (CRD).The result showed that over one month ,there was on significant in water use or water less in May or June ,while increasing plant tall 20 cm provided significantly higher which gave up to 51.4% comparing with 10 cm plant tall. Also increasing rate of water consumed according to the greater plant growth or size ,which gave up to 63.9% between the beginning and end experiment .In general ,the different between the first data for 10 cm plant tall in May was 95.4% if it compared with last data for treatment 20 cm plant tall .while the same treatment reached up to 83.5% in June .On other hand ,the largest water loss with treatment of 20 cm tall in May was 137.3 tons .day⁻¹.donum⁻¹ if it compared with the same treatment in June which loosed 513.2 tons.day⁻¹.ha⁻¹ of water.

Key words: Water consumed, *Eichhornia crassipes*, vegetative growth.

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