

Vitis vinifera

IBA

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()	/	2000	1000	IBA	
/					"Alphonse Lavalley"	
	12			/		
					IBA	
3					%100	
2000	3			IBA /	1000	
					IBA /	
.		11,72	2,27	15,77	8,06	20,10
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The Interaction Effect Among the Existing Eyes Numbers of the Cuttings Grape and Treatment by IBA Powder in the Improvement of the Root Growth

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ABSTRACT

This research was conducted in the plastic houses at Horticulture Dep. College of Agriculture and Forestry Mosul University, Iraq, to study the effect of three concentrations of auxin IBA 0, 1000 and 2000 mg/L and number of eyes on cuttings with two or three eyes on rooting and growth parameters of hardwood Grape cuttings. After Twelve weeks from culture date cuttings examined for rooting and vegetative growth. Cuttings with three eyes significantly show increase in all parameters as compared with cuttings with two eyes (rooting percentage, root number and length, fresh and dry root weight, new shoots, new leaves, number and length of new shoots, fresh and dry vegetative weight parameters, at the same time the two concentrations of auxin IBA 1000 and 2000 mg/L increased significantly all rooting and vegetative parameters, except the percentage of rooting and number of new shoots. However the interaction treatment (cutting with three eyes + 1000 mg/L IBA) gave a 100% of rooting percentage, but the highest average of (root number and length , new leaves, number and length of new shoots) resulted from cutting with three eyes treated with 2000 mg/L IBA value which reached 20.10, 8.06cm, 15.77 , 2.27 and 11.72cm respectively .

Key words: Percentage rooting, Hardwood cuttings, IBA , Number of eyes , Grape