

**Abstract:**

This study was carried out at Baquba nursery/ Diyala governorate during the period 15/3 - 15/10/2012 on three citrus rootstocks ( Cleopatra Mandarin , SwingleCitrumelo , and Volkameriana Lemon ). 162 of 2 years old seedlings were selected to study the effects of ( *Trichoderma spp* ) and Organic fertilizer ( Humic plus , and seaweed Extract ) application on citrus Rootstocks growth . R.C.B.D was used with three replications ( 3 seedlings per experimental unit ).The experiment included soil application of Humic plus (1%) of *Trichoderma spp.* ( 2g. kg<sup>-1</sup> ) , and foliar application of seaweed Extract (1%) , Three times ( 30 days intervals ) Data were analyzed according to spss using SAS test at 5% level. The result showed :

1- Individual application of *Trichoderma spp* and Seaweed extract and Humic acid caused a significant increase in most vegetative growth characteristics ( main stem length , stem Circumference , Leaves number , Leaf area , number and length of branches , vegetative and root system fresh and dry weight vegetative / root system fresh and dry weight ratio ) Leaf NPK percent and total chlorophyll.

2-*Trichoderma* and Seaweed extract interaction caused asignificant increase in all studied characteristics.

3- *Trichoderma* interaction with Humic acid resulted in a significant increase vegetative growth characters.

4- Volkameriana Lemon rootstock showed a superiority over the rest rootstocks in growth characters ( except leaf N percent , and Total chlorophyll ).

5- DRIS system successfully proved an efficiency of Bio and organic fertilizers application .

The use of this system supported the previously used parameters where the best growth combined with NPK indicator in *Trichoderma* + Humic acid , and *Trichoderma* + Seaweed extract treatments . Thus they gave the lowest absolute total (10) and the highest yield of dry matter ( 93.77 , 93.37 g.plant<sup>-1</sup> , respectively ).