

THE ASSESSMENT OF THE EFFECT OF *GLOMUS MOSSEAE* , *TRICHODERMA HARZIANUM* AND HUMIC ACID ON GROWTH AND PRODUCTIVITY OF TOMATO PLANT . (*LYCOPERSICON ESCULENTUM* MILL) .

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ABSTRACT

The study aimed to assess of tomato roots infection by *Glomus mosseae* individually or with relation to *Trichoderma harzianum* and Humic acid and there effect on the total product of tomato in sterilized soil .

The results shows that :

Tomato root are void of *Glomus mosseae* infection after 30 days of planting in the comparison treatment Humic acid and *Trichoderma harzianum* individually in comparison control treatment. Tomato roots treatment with *Glomus mosseae* without Humic acid addition results increase of tomato roots infection 29.10 % after 30 days of planting in comparison to control treatment (0.0) and product increase was 69.338 Ton / H ., and with Humic acid addition results increase of tomato infection 58 .50 % in comparison to control treatment (0.0) and product increase was 95.153 Ton/H .The treatment with *G.mosseae* inter related with *T.harzianum* without Humic acid results increase of tomato roots infection 38 % comparison to *Trichoderma* treatment (0.0) and product increase was 83.606 Ton /H . The Treatment with *Glomus mosseae* and *Trichoderma harzianum* inter related with Humic acid exceeded all the other types of treatment and it showed increase in tomato roots infection with *Mycorrhiza* 64.2 % which reflected increase in tomato product 117.609 Ton/ H .