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FOLIAR SPRAYING EFFECT OF HUMIC ACID & BRASSINOSTEROID ON FLORAL AND VEGETATIVE GROWTH OF ORANGE *Citrus sinensis* L. MAHLI TREES.

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ABSTRACT

This study was conducted at a private orchard in Awnat village-Tikrit city Salahaddin governorate during 2013 season to explain the effect of foliar nutrition (Humic acid) and spraying with Brassinosteroid on decreasing flower drops and fruit set as well as improving some specific and qualitative properties of orange. The experiment included spraying plants with Brassinosteroid (0.00, 0.010, 0.020 mg.l⁻¹) and then completed with spraying with Humic acid conc. (0.2, 4, 6) m.l⁻¹ Result show the significant effect to BRs treatment(0.020) mg.L⁻¹ gave highest fruit set and lowest dropping and The highest proportion of the remaining fruits on trees (25 , 5.66 , 53.6) % respectively. Humic acid treatment gave highest leaf area was 29.6 cm² and relative chlorophyll was 74.1 Spad Unit and highest proportion dried material in the leaves reach 45.19.%. Humic acid treatment gave highest fruits reach 15.89 kg and highest proportion fruits number was 92.4 fruit.tree⁻¹ also gave significant top in fruit volume reach 321.7 cm³.

Key words: Orange , Brassinosteroid , Humic acid .