



Effect of Soli Application with Humic and Amino acid on Vegetative Growth, Nutritional Statues, Yield and Fruit Quality of Grande Naine Banana Plants

Amin O.A.^{1*}, Nehad M. A. Abdel Gawad², Hala E. Emam¹ and Eman A. A. Abd El- Moneim¹

¹Horticultural Crops Technology Dept., National Research Centre, 33 El-Bohouthst., Dokki, Giza, Egypt

²Tropical Fruit Research Dept., Horticulture Research Institute, Agricultural Research Center, Egypt

Abstract : This study was carried out in a private orchard, at El-khatatabaregion, Minofia governorate on 'Grande Naine' banana plants grown in sand soil during the 2013/2014 and 2014/2015 seasons to study the effect of different levels of humic acid (0.0, 5.0 and 10.0 g/L/plants/year) and amino acid (0.0, 0.5 and 1.0 g/L/plants/year) either alone or in combinations. They were added into four doses during the first week of April to July on vegetative growth, Leaf (N, P, and K), content, yield, bunch characteristics and finger parameters were determined. The results indicated that, all treatments with humic acid and amino acid alone or in combinations treatments increased all vegetative growth parameter under study in both seasons. Meanwhile, soil applied with humic acid and amino acid combination increased leaf (N) and (K) content in both seasons. In addition, the treatment of soil applied with 1.0g /L humic acid +1g/L amino acid gave the highest values for the above yield and Bunch weight. However, fruit quality (physical and chemical characteristics) was significantly improved by soil applied with different humic and amino acid treatments either alone or in combinations.

Keywords : Humi acid - vegetative growth - Banana plants -Amino acid- yield and fruit quality.