Effect of Compost and Humic Acid on Potato Growth and Quality

Abstract- an experiment was carried out in Karbala on 10/9/2014 using the compost of palm residues at four levels (0, 20, 30, 40) tan.h-1 and the humic acid in three concentrations (0,1.5, 3)ml.L-1 to determine the effect of these factors and their interaction in growth and quality characteristics of potato and find organic fertilizer combination instead of chemical fertilizers. The addition of the compost of the residue palm has a significant and positive effect on all studied traits (Number of branches.plant-1, Plant height, percent of the dry weight of vegetative growth, percent of nitrogen, phosphorus and potassium in tubers, ratio of total soluble solids in tubers, percent of starch in tubers, the market yield of the plant), While not affecting on not valid for the marketing year. Spraying of the humic acid caused a significant increase in all the mentioned characteristics except for the percent of phosphorus in the tubers and the not valid for marketing yield. Interaction between palm waste compost and humic acid had a significant effect on the studied indicators except for the percent of phosphorus in the tubers and the not valid for marketing yield of the plant.

Keywords- compost, residue, palm, Humic, potato

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