Effect of the Number of Sprayings with Scotts Fertilizer on Potato Growth and Production

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Abstract

An experiment was carried out at the field of Agriculture college/ Abu-Ghraib (pH=7.5) and (Ec=4.2) to study the effect of number of sprays with Foliar nutrient fertilizer (Scotts) on growth and production of potato Cv. Desiree during fall season of 2006 . Scotts foliar fertilizer contains 10% N, 15%P_2O_5, 31% K_2O, 0.1% MgO and amount of chelated B, Cu, Mg, Zn and Fe at the rate of 2ml/L of water (Scott Company product), plants were sprayed to drip point with either distilled water (30 days), or with nutrient solution, once (30 days), twice (30 and 45 days), or three times (30, 45 and 60 days) after planting. Randomize Complete Block Design was adapted with three replicates. Plant height increased when sprayed three times to 49 cm at the rate 22.45% as compared with control. Also, the same treatment increased number of branches/ plant at the rate 56.11% as compared with control. All treatment increased vegetative growth dry weight at the rate 36.32%, 32.34%, 29.82% when sprayed three times, twice, once as compared with control. Tuber weight increased when sprayed three times at the rate 36.68% as compared with control. Plant yield increased at the rate 52.08% when sprayed three times as compared with control.

Key words: foliar spraying, potato yield, scott fertilizer

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