

EFFECT OF BIOFERTILIZATION IN EFFECTIVE MICROORGANISMS MAX AND SPRAY WITH PLANT
EXTRACTS IN GROWTH AND YIELD OF CUCUMBER (CUCUMIS SATIVUS)

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Abstract

Factorial experiment felid was conducted in Diyala province in Baquba city of during autumn season 2016, on cucumber plants (*Cucumis sativus*) var. Gazar in exposed felid. to study effect two factors: effective Microorganisms (EM) with two levels (with and without), and spray with three types plant extracts with, Euphrates poplar extract, wild berry extract and castor oil extract and control spray with distal water, with used Random Complete Block Design (RCBD) with three replications and every replication include eight experimental unit. Adding EM showed increased in all studied characters but did not reach to the level of significant except in potassium absorption character in leaves it was significant significant ($P \leq 0.05$). The treatment of effect of castor oil extract was improve significant ($P \leq 0.05$) in all vegetative characters of Cucumber as well as wild berry fruits extract was improve significant ($P \leq 0.05$) in nitrogen absorption character and Euphrates poplar extract was improve significant ($P \leq 0.05$) in per plant yield, number of plant fruit and the production in the hectare .

Kay words: Cucumber, . Extract plant, bio fertilization