

**TOMATO PRUDICTIVITY UNDER INTEGRATED
ACTIVATION SYSTEM. 1 . EFFECT OF PHOSPHATE AND
ORGANIC FERTILIZATION AND BIOFERTILIZER ON YIELD
AND INDICATORS FOR TOMATO FRUITS.**

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ABSTRACT

A field experiment was conducted on vegetable field - Horticulture Department – College of Agriculture -Abu Graib , Tomato (Hybrid Jenan) cultivated in spring season of 2012 , A factorial experiment with randomize completely blocks design with three replicates and twenty four treatment, phosphate fertilizer was added from TSP source on four levels (0,40,80 and 120 Kg P.h⁻¹) ,three levels (0 , 6 and 12 Ton .h⁻¹) from organic matter (ground corn cobs composting)and two levels of biofertilizer ,Mycorrhizae source (*G. mossea*) (with or without),All fertilizers was added in soil mixture .The experimental results showed that all fertilizers applied significantly affected on early and total fresh fruit yield , fruit weight and number. Data showing the early and total fresh fruit yield high value was 42.93 and 50.08 Megagram.h⁻¹ respectively .also the results showed a high value for the number of fruit was 9.00 fruit .plant⁻¹ and the percentage of increases 110.77% compared to that of control . and the level 40 Kg P.h⁻¹with 12 Ton .h⁻¹with inoculation gave the highest value for fruit weight (111.51 g.fruit⁻¹).

Keywords : T.S.P.,ground cob corn manure , mycorrhizae,tomato plant .