ABSTRACT

The study was conducted during the seasons of (2010-2011) and (2011-2012) in one of the greenhouses in Metan Al-Sahel village consequent for Tartous conservative ; so as to determine the influence of spattering some of planting extracts (*Portulaca oleraceae* (P)*, Malva parviflora*(M), *Opinuta ficus indica*(C) and the commercial growth regulator,(flower-set) (HOR); on the Vegetative and flowering growth , the yield of tomatoes and fruits quality characteristics. they have been spattered on three hybrids of tomatoes (OURJOUAN , AL-BADIAH and the SWEETY). The experiment has been planned according to a design of the whole Randomized Complete Block Design (RCBD) (factorial experiment) and with the number of treatments (81) experiment unit, Duncan's multiple range test was used to compared the Treatment means were. on the probable level of 5%, we have got the following results :

The spattering of planting extracts (single-handed and foregathered) caused a significant increase in stem length, the best responding was AL-BADIAH hybrid. About leaves number the treatments of spattering extracts (P+M+C , M) has given best results in SWEETY hybrid, The best result it was control treatment in leaves area. About Photosynthesis the best treatment in this adjective it was extract (P+M+C) in SWEETY hybrid. Spraying from all extracts, was not effected significantly on the hybrids of tomato in the number of days to flowering. But the effect it was on the number of cluster in AL-BADIAH hybrid in extract (M). Al- OURJOUAN hybrid has given the highest rate for ratio of flower-set. the Yields the treatment of spattering extract (P+M+C) and (M) caused a significant increase in (the early and total yields , yield per plant**,** fruit's number and mean of fruit weight), But the planting extracts was not effected on Height and Diameter of Fruit in all hybrids. From another side, the Fruits Quality characteristics, it was effected when treat by planting extracts. The fruit solidity has increase special in SWEETY hybrid As for the ratio of acidity the spraying from all planting extracts, was not effected significantly on tomato hybrids . But the planting extracts has reduced from the ratio of total Soluble Solids of all hybrids, and the control treatment has been given the best result. While the OURJOUAN hybrid has surpassed than other hybrids in giving the highest mean in Vitamin C.This study was appeared different between hybrids , according to extract and the mix between them, its back to biological natural and genetics different for this hybrids.

Key words: Tomato , Plant extracts , Hybrids, flower hormone, Fruit set, Yields