



Effect of foliar application of growth regulators (GA₃ and Ethereal) on growth, sex expression and yield of summer squash plants (*Cucurbita pepo* L.) under plastic house condition

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Abstract: Two testing were load out through winter season of 2012/2013 and 2013/2014 at the experimental terminal of the National Research Centre at Nubaria zone, (North Egypt) to survey the reply of squash plants (*Cucurbita pepo* L.) to foliar exercise of several bio-regulators (GA₃) at several concentrations (15, 30, 45 and 60 mg/L) or Ethereal at the levels of (150, 200 and 250 mg/L) and foliar spraying with water (control) to the effect of impact plant growth sex expression, proportion of fruit set, fruits yield and nutritional supplement of squash fruits c.v. Eskandarani. These processing were laid out in whole randomize styling disposition with three replications. The concise outcome gained from this field research that, mounting the concentrations of growth regulators (GA₃ or Ethereal) fulfilled tallest plant, highest number of leaves and branches, heaviest fresh and dry weight of leaves, branches, leaf area /plant and fruit set percentage as well as total yield and highest values of the percentage of N, protein, dry matter, TSS and vitamin C (mg/100g F.W.) in squash fruit tissues. However, foliar application of Ethereal at high level (150 mg/L) produced the elevated number of female flowers compared all treatments and control.

Key words: squash- GA₃.Ethereal- growth - sex expression- fruit set, total yield.

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