

RESEARCH PAPER

ADVANCE RESEARCH JOURNAL OF
C R P
IMPROVEMENT
Volume 8 | Issue 1 | June, 2017 | 70-74
..... e ISSN-2231-640X

DOI :
10.15740/HAS/ARJCI/8.1/70-74
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Effect of GA₃, urea and ZnSO₄ on growth and yield parameters of strawberry (*Fragaria x ananassa* Duch.) cv. SWEET CHARLIE under protected condition

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ABSTRACT : An experiment was conducted under protected condition to study the effect of foliar application of GA₃ (100 and 150 ppm), urea (1.0 and 1.5 %) and ZnSO₄ (0.5 and 1.0 %) on growth and yield of strawberry (*Fragaria x ananassa* Duch.) cv. SWEET CHARLIE. The results revealed that the applications of GA₃ at 150 ppm significantly influenced the growth related parameters viz., highest plant height (18.34 cm), maximum numbers of runners/plant (10.31), highest length of runners/plant (39.76 cm) and maximum number of leaves/plant (36.70) whereas, GA₃ at 100ppm significant effect on flowering parameters viz., minimum days to flowering (71.55), maximum number of flowers per plant (19.77) and maximum fruit set/plant (91.80 %) and yield parameters like, maximum number of fruit per plant (18.15), highest yield/plant was 0.17 kg and yield/plot was 4.19 kg. Therefore, from present investigation it can be emphasized that high concentration of GA₃ promote vegetative growth and moderate concentration significantly controls flowering and yield attributes in case of strawberry.

KEY WORDS : Foliar, GA₃, Urea, ZnSO₄, Growth, Yield, Strawberry, Protected

How to cite this paper : Rustam, Chovatia, R.S. and Makhmale, S.J. (2017). Effect of GA₃, urea and ZnSO₄ on growth and yield parameters of strawberry (*Fragaria x ananassa* Duch.) cv. SWEET CHARLIE under protected condition. *Adv. Res. J. Crop Improv.*, **8** (1) : 70-74, DOI : 10.15740/HAS/ARJCI/8.1/70-74.

Paper History : Received : 03.01.2017; Revised : 05.05.2017; Accepted : 14.05.2017