

EFFECT OF PLANT GROWTH REGULATORS ON TEASLE GOURD (*MOMORDICA DIOICA* ROXB) PRODUCTION

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Extended Summary

The experiment was conducted at Horticulture Farm and Laboratory, SAU, during the period from November 2009 to October 2010 with two factorial Randomized Complete Block Design (RCBD) with three replications. The maximum plant height (290.53 cm), number of primary branches per plant (6.92), number of secondary branches per plant (17.89), node number for first flowering (8.95), days required to first flowering (52.39), length of fruit (8.50 cm), girth of fruit (16.25 cm), length of pedicel (16.30 cm), fresh weight of fruit (32.66 g), dry matter content of fruit (12.19%), fresh weight of leaves (9.03g), dry matter content of leaves (6.11%), yield of fruits per plot (6.69kg) and yield of fruits per hectare (16.72 tonnes) and minimum abscission of flowers (16.94%), minimum fruit dropping (11.12%) was obtained from the treatment combination of 500 ppm GA₃ and 250 ppm NAA while the minimum was found from control treatment combination in all observations except flower abscission and fruit dropping.

This experiment was conducted only AEZ No. 28. For more confirmation of the results such type of works need to be conducted in other agro-ecological zones of Bangladesh using of different concentration of GA₃ and NAA. It may be concluded that, 500 ppm GA₃ and 250 ppm NAA is more effective compared to other combination for successful production of teasle gourd.

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