

**EFFECT OF SOME GROWTH REGULATING CHEMICALS ON GROWTH
FLOWERING AND TUBEROUS-ROOT PRODUCTION .
OF Dahlia Pinnata , L .**

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ABSTRACT

Field experiments were conducted to evaluate the effects of soaking tuberous roots of Dahlia Pinnata before planting in GA3 , kinetin , ethrel or bonzi solutions with different concentrations or spraying the plants with the same solutions . Obtained results showed that bonzi at all concentrations reduced stem length as compared with the control , whereas GA3 at (150 or 200 ppm) and kinetin at (100 or 150 ppm) increased stem length and dry weight of leaves per plant . Ethrel or bonzi at all concentrations produced the largest diameter of stem . GA3 gave the earliest flowering , while ethrel delayed it . Number of flowers / plant increased by all concentrations of GA3 ok kinetin and ethrel at 100 ppm only . kinetin at all concentrations in both application gave the largest diameter of a flower . Flower duration of the inflorescences on dahlia plants was high significantly increased by GA3 at 200 ppm as foliar application . Ethrel at 100 ppm increased the number and fresh weight of tuberous root per plant .