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Research Paper

Influence of plant growth regulators and their application methods on yield and quality of onion (*Allium cepa* L.)

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ABSTRACT

The field experiment was carried out during *Rabi* seasons for the years 2007-08 and 2008-09 in sandy loam soil at Horticultural Research Farm, Department of Horticulture, B. A. College of Agriculture, Anand Agricultural University, Anand in Randomized Block Design with three replications. The growth regulators GA_3 and NAA each @ 50, 100 and 150 mg/l were tried as root dipping, foliar spray as well as their combinations and compared with control. The application of GA_3 50 mg/l as root dipping + foliar spray significantly increased volume of bulb, equatorial and polar diameter of bulb as well as bulb yield, while average weight of bulb was significantly increased in GA_3 100 mg/l as root dipping + foliar spray. The other characters *viz.*, number of leaves per plant, TSS and dry matter content of bulb were found non-significant. The physiological loss of weight, spoilage loss and finally total loss were significantly reduced under NAA 100 mg/l as root dipping treatment when compared to control.

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