

INFLUENCED OF NUTRIENTS AND PLANT GROWTH REGULATORS ON ECONOMIC OF ONION (*ALLIUM CEPA* L.)

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Abstract: The field experiment was conducted to study the “Effect of Nutrients and Plant Growth Regulators on Growth, Yield, Quality and Storage Life of Onion (*Allium cepa* L.)” in loamy sand soils of the Research Farm, Rajasthan Agricultural Research Institute Durgapura (Jaipur, Rajasthan) during *rabi* season 2016-17 and 2017-18. The experiment consisted four nutrient combination (NP, NPK, NPKS and NPKSB) and four treatment were nutrient and plant growth regulators (Control, CaCl₂ @ 0.5%, ethephon @ 3000 ppm and mepiquat chloride @ 750 ppm) under three curing methods (Field curing, curing under 60% shade and curing under poly tunnel) thereby making forty-eight treatment combinations tested in factorial randomized block design with three replications. Results indicated that economics of maximum net returns Rs 475439.31 /ha and Rs 466819.98 were recorded with combined application of NPKSB, mepiquat chloride along with field curing and NPKSB, mepiquat chloride along with 60% shade net curing during 2016-17 and 2017-18 respectively. Maximum B: C ratio 6.11 and 6.01 was recorded with combined application of NPKSB, mepiquat chloride along with 60% shade net curing during 2016-17 and 2017-18 respectively.

Keywords: B: C ratio, Net returns, Nutrients onion, Plant growth regulators

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