AN EFFECT OF GROWTH REGULATORS ON RESTRICTION OF UMBEL ORDERS IN SEED PRODUCTION OF ONION cv CO (On) 5

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ABSTRACT

A field experiment was conducted with onion cv. CO (On) 5 to study the effect of growth regulators spray on restriction of umbel orders on seed set percentage and seed quality in onion. The results revealed that among the sprays, spraying of paclobutrazol (100 ppm) and NAA (100 ppm) at the first flower stalk emergence (33rd days after sowing) and second spray at 10 per cent flowering stage (44th days after sowing) recorded enhanced seed recovery and yield. In the present investigation results showed that significant differences observed in all the physiological characters viz., speed of germination, germination, root length, shoot length, dry matter production and vigour index due to the spray of Paclobutrazol @ 100 ppm (22.3, 92 per cent, 6.3 cm, 8.7 cm, 17.1 mg 10 seedlings -1 and 1380) which was on par with NAA @ 100 ppm (22.1, 91 per cent, 6.4 cm, 8.9 cm, 17.4 mg 10 seedlings -1 and 1392) compared with control (20.1, 80 per cent, 5.3 cm, 6.8 cm, 13.6 mg 10 seedlings -1 and 968).

KEY WORDS: Onion, Growth Regulators, Umbel Order & Germination and Seed Yield

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