

Influence of spacings and nutrient levels on bulb yield and quality of Onion var N-53

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ABSTRACT

Field studies conducted on the influence of certain spacings and nutrient levels on bulb characters and bulb yield of onion cv.N-53 indicated that the bulb characters increased with wider spacing (30 x 30cm). However, the highest bulb yield of 11.8 t ha⁻¹ was observed under high plant population, *i.e.*, narrow spacing (30x15cm) per unit area. Among nutrient levels, L₄ (200 kg N: 80 kg P₂O₅: 100 kg K₂O/ha.) recorded the highest bulb yield of 10.0 t/ha and highest ascorbic acid content (17.02 mg/100 g bulb wt.). Among interactions effects 30 x15cm coupled with application of 200 kg N: 80 kg P₂O₅: 100 kg K₂O ha⁻¹ recorded the highest bulb yield of 13.14 t/ha and the ascorbic acid content (16.9 mg/100 g bulb wt.).

Key words : Bulb growth, Nutrient levels, Onion, Spacing.