STUDIES ON EFFECT OF DIFFERENT CUTTING AND VARIETIES ON YIELD AND QUALITY PARAMETER OF SPINACH BEET (*Beta vulgaris* var. *Bengalensis* l.)

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Abstract

The research work is conducted on research farm Babasaheb Bhimrao Ambedkar University Lucknow (U.P.) during Rabi session 2019-20 in factorial RBD. With 16 treatment varieties (V1 Chandrika, V_2 Pusa Jyoti, V_3 All Green, and V_4 Palak Katadar) and cutting (C_0 no cutting, C_1 cutting 1, C_2 cutting 2, and C_3 cutting 3). We investigate the effect of different cuttings and varieties on yield (green yield/plant (g), green yield/plot (kg), green yield/ha (q), seed yield/plant (g), seed yield/plot (kg), and seed yield/ha (q)) and quality parameters such as moisture content (%), TSS (total soluble solids) (^{0}Brix), and ascorbic acid. Finally after investigation we found that maximum moisture (%) in C_1, C_2 and C_3 and minimum are reported in Co while in case of ascorbic acid in C1and minimum C_0 in case of TSS maximum TSS in C_0 and minimum are reported in C1. And in case of varieties found that V_2 maximum TSS, moisture content (%) and ascorbic acid while minimum reported in V1. In the case of the quality parameter, it was found that three cuttings (C_3) gave significantly higher yield per plant, per plot, and per hectare than (Co), (C_1), and (C_2). And in case of seed yield per plant, per plot and per hectare one cutting (C_1) gave significantly higher than (Co), (C_2), and (C_3), maximum 10 leaves dry matter reported in C_1 and fallowed C_2. Found that V_2 significantly maximum effect yield parameter and minimum reported in V_1.

Keywords: - Varieties, Experiment, Cutting, Indian spinach, Factorial RBD.