

Effect of different organic manures and varieties on growth yield and quality parameter of sprouting broccoli (*Brassica oleracea* var. *italica* Plenck)

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Abstract

The effect of different organic sources and varieties on the growth, yield, quality, and attributes of a sprouting broccoli crop under Lucknow conditions was studied at Babasaheb Bhimrao Ambedkar University Lucknow, 226025 (U P), on a research farm with 12 treatments in an RBD design. Using different sources (soil, FYM, cocopeat, vermicompost, neem cake, and poultry manure) and varieties (V₁ Green Head and V₂ Pusa KTS-1). They study growth parameters such as days to 50% curd initiation and days to 50% curd maturity; in the case of yield parameters, vertical curd size, horizontal curd size, and weight of curd; and in quality attributes, vitamin C content, curd colour, curd shape, curd compactness, etc. Finally, they found that the application of 5.0 t ha⁻¹ of vermicompost significantly increased the growth, yield, and quality parameters of the broccoli crop over the application of 5.0 t ha⁻¹ of poultry manure, while minimums were reported for S (soil) or control, as well as Neemcake, FYM, and cocopeat at all stages. While in the case of varieties, they found that variety V₂ (Pusa KTS-1) has a significantly greater effect on vermicompost than variety V₁ (Green Head).

Keywords: - organic manure, Experiment, varieties, and broccoli